

NOAA Technical Memorandum NOS ORCA 73



**Evaluation of the Condition of Prince William Sound Littoral Biota Following the Exxon Valdez Oil Spill and Subsequent Shoreline Treatment:**

**Volume III Appendices**

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

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National Ocean Service

Office of Ocean Resources Conservation and Assessment  
National Ocean Service  
National Oceanic and Atmospheric Administration  
U.S. Department of Commerce

The Office of Ocean Resources Conservation and Assessment (ORCA) provides decisionmakers comprehensive, scientific information on characteristics of the oceans, coastal areas, and estuaries of the United States of America. The information ranges from strategic, national assessments of coastal and estuarine environmental quality to real-time information for navigation or hazardous materials spill response. Through its National Status and Trends (NS&T) Program, ORCA uses uniform techniques to monitor toxic chemical contamination of bottom-feeding fish, mussels and oysters, and sediments at about 300 locations throughout the United States. A related NS&T Program of directed research examines the relationships between contaminant exposure and indicators of biological responses in fish and shellfish.

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ORCA collects, synthesizes, and distributes information on the use of the coastal and oceanic resources of the United States to identify compatibilities and conflicts and to determine research needs and priorities. It conducts comprehensive, strategic assessments of multiple resource uses in coastal, estuarine, and oceanic areas for decisionmaking by NOAA, other Federal agencies, state agencies, Congress, industry, and public interest groups. It publishes a series of thematic data atlases on major regions of the U.S. Exclusive Economic Zone and on selected characteristics of major U.S. estuaries.

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**Volume III Appendices**

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**NOTICE**

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## **APPENDIX A**

Table A-1 Location, site, station, habitat type, and tidal height of all sampling –1990 to 1992.

Location and site	Habitat	Station	Tidal Ht. (ft)	Epibiota 1/4 m <sup>2</sup>	Inf. Core 1 mm	Inf. Core 0.5 mm	Mega-inf. 1/4 m <sup>2</sup>	Littorina Pop'n	Mytilus Pop'n	Nucella Pop'n	Littorina Histo	Mytilus Histo	Nucella Histo	Littorina Repro	Mytilus Repro	Littorina Calcein
<b>Category 1–Unoiled</b>																
Bass Harbor(NA-27)																
Rocky	Rock	Up	8.83	ACDF												
Boulder/cobble	Boulder/cobble	Up	7.65	ADF				C								
		Mid	5.37	AD				ABD				D		D		C
		Low	1.23	D												
Outside Bay (NA-26)																
Soft 1	Gravel/cobble	Up	9.45	ADF				B								
	Gravel/cobble	Mid	4.90	ADF	ABDF				BC							C
	Gravel/sand	Low	0.33	ABDF	ABCDF		ADF									
Soft 2	Gravel/sand	Mid						A								
Esham Bay (EB-7)																
Rocky	Rock	Up	9.77	ADF								D				
	Rock	Mid	5.66	ADF				AD								DF
	Rock	Low	2.55	BEF												
Hogg Bay																
Rocky	Rock	Up	9.89	ACDF								F				
	Rock	Mid	7.95	ABCDF				ABD				D				D
	Rock	Low	2.62	ADF												
Sheep Bay																
Soft	Gravel/sand	Up	9.72	ADF				B								
		Mid	4.55	ABDF	ABDF				BD							
		Low	2.27	ABDF	ABDF	D	ADF									
Bainbridge Bight																
Soft	Gravel/sand	Low	1.30	D	CDEF	D	DF									
Crab Bay (EV-500)																
Rocky	Rock	Mid	6.90	ACDF								AB		D		C
	Rock	Low	0.68	ADF				ABCD								D
Soft	Gravel/cobble	Up	9.51	DF												
	Gravel/cobble	Mid	5.49	ADF	ABDF	D										C
	Gravel/cobble	Low	2.63	AF	ABF		AF									
Seward	Boulder/cobble	Mid														D

Table A-1 (continued).

Location and site	Habitat	Station	Tidal Ht. (ft)	Epibiofa 1/4 m <sup>2</sup>	Inf. Core 1 mm	Inf. 0.5 mm	Mega-inf. 1/4 m <sup>2</sup>	Littorina Pop'n	Mytilus Pop'n	Nucella Pop'n	Littorina Histo	Mytilus Histo	Nucella Histo	Littorina Repro	Mytilus Repro	Littorina Calcein
<b>Category 2—Oiled, untreated</b>																
<b>Northwest Bay</b>																
West Arm Rock	Rock	Mid	7.83	DF												
	Rock	Low														
<b>Herring Bay (KN-5000)</b>																
Rocky	Rock	Up	9.64	ACDF												
	Rock	Mid	5.37	ACDF												D
Soft	Gravel/cobble	Up	7.21	ADF												
	Gravel/sand	Low	0.23	ACDF	ABCDF		ABDF									D
<b>Bay of Isles (KN-07)</b>																
Rocky	Rock	Mid	4.80	AD												F
	Gravel/cobble	Up		AD												
Soft	Gravel/cobble	Low	-0.14	BD	BD	D	BD									
<b>Snug Harbor (KN-401)</b>																
Rocky	Rock	Up	8.41	ACDF												C
	Rock	Mid	5.13	ACDF												D
Soft	Rock	Low	1.52	ADF												
	Gravel/cobble	Up	9.28	ADF												C
	Gravel/sand	Mid	5.74	ACDF	ABDF	D										C
	Gravel/sand	Low	-0.15	ACDF	ABCDF	D	ADF									
<b>Block Island (EL-11)</b>																
Soft	Gravel/sand	Low	3.59	ABDF	ABCDF	D	ADF									
<b>Mussel Beach South</b>																
Soft	Gravel/sand	Mid	4.40	ABDF	BDF	D										F
	Gravel/sand	Low	-0.89	ACDF	ADF	D	ADF									
<b>Crafton Island (CR-5)</b>																
Soft	Gravel/cobble	Up	8.52	AD												
	Gravel/cobble	Mid	5.01	AD	D	D										DF
	Gravel/cobble	Low	2.95	AD	ABD	D	ABD									

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Habitat	Station	Tidal Ht. (ft)	Epibiota 1/4 m <sup>2</sup>	Inf. 1 mm	Inf. 0.5 mm	Inf. 1/4 m <sup>2</sup>	Littorina Pop'n	Mytilus Pop'n	Nucella Pop'n	Littorina Histo	Mytilus Histo	Nucella Histo	Littorina Repro	Mytilus Repro	Littorina Calcein
<b>Outside Bay (NA-26)</b>																
	Rocky	Rock	Up	8.96	ACDF			D				D				
		Rock	Mid	5.27	ACDF			ABCD		BD			D	C		
		Rock	Low	0.70	ACDF											
<b>Ingot Island (IN-24)</b>																
	Boulder/cobble	Rock/boulder	Mid	6.80	BD			BD		BD		D	D			D
	Soft	Gravel/cobble	Low	2.33	DF	BDF	D	BDF								
<b>Category 3—Oiled, treated</b>																
<b>Point Helen (KN-405) Site 1</b>																
	Boulder/cobble	Boulder/cobble	Up	7.25	AD			ABD		D		D	DF			
		Boulder/cobble	Mid	4.16	DF											
		Boulder/cobble	Low	-1.46	AD											
<b>Point Helen (KN-405) Site 3</b>																
	Boulder/cobble	Boulder/cobble	Up		F											
		Boulder/cobble	Mid		F											
		Boulder/cobble	Low		F											
<b>Northwest Bay</b>																
	Rocky Islet (EL-55)	Rock	Up	9.42	ACDF			ABD		ABD		D	DF			D
		Rock	Mid	6.97	ACDF			A								
		Rock	Low	2.46	ACDF											
<b>West Arm Rock</b>																
		Rock	Mid	7.83	DF											
		Rock	Low													
	W. Arm Soft (EL-52)	Gravel/cobble	Mid	6.20	ADF	BDF	D	ABD		ABD			F			
		Gravel/sand	Low	0.63	ABDF	ABCDF	D	ADF		ABD						
<b>Shelter Bay (EV-21)</b>																
	Soft	Gravel/sand	Up	8.57	BDF			D		D		D	DF			
		Gravel/sand	Mid	6.18	ADF	ABDF	D	B								
		Gravel/sand	Low	1.02	ABDF	ABCDF	D	ADF	B							

A

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Habitat	Station	Tidal Ht. (ft)	Epibiota 1/4 m <sup>2</sup>	Inf. 1 mm	Inf. 0.5 mm	Inf. 1/4 m <sup>2</sup>	Littorina Pop'n	Mytilus Pop'n	Nucella Pop'n	Littorina Histo	Mytilus Histo	Nucella Histo	Littorina Repro	Mytilus Repro	Littorina Calcein
Sleepy Bay (LA-18)																
Soft	Gravel/cobble	Up	3.56	ADF	AB								D	DF		
	Gravel/sand	Mid	1.48	ADF	ABDF	D		ABD	ABD							
	Gravel/sand	Low	-0.85	DF	DF	D	DF									
Ne Latouche Cobble (LA-15)	Boulder/cobble	Boulder/cobble	Mid	3.19	ADF			D	D			D	DF			
	Boulder/cobble	Low	0.71	BDF												
Smith Island (SM-06)	Boulder/cobble	Boulder/cobble	Up	8.35	BD											
N-4	Boulder/cobble	Mid	6.35	ABD				ABD	ABD	AB		D	D	D		
	Boulder/cobble	Low	2.14	ABD												
Mussel Beach South (EL-13)	Rocky	Rock	Up		ACDF			BD				D	D			D
Mussel Beach North (EL-13)	Rocky	Rock	Up		F											
	Rock	Mid			F											
	Rock	Mid(ABC)			F											
	Rock	Low			F											
Omni Site	Boulder/cobble	Rock/boulder	Mid		F											
Block Island (EL-11)	Rocky	Rock	Up	8.27	CDF							D	D			
	Rock	Mid	3.82	ACDF												
Soft	Gravel/sand	Mid	6.49	ADF	BF		A	BF	BD	B		D	F			
Erlington Island West	Rocky	Rock	Up													
	Rock	Mid			F								F			
	Rock	Low			F											
Soft	Gravel/sand	Mid											F			
	Gravel/sand	Low			F		F									

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Habitat	Station	Tidal Ht.	Epibota	Inf.	Inf.	Inf.	Littorina	Mytilus	Nucella	Littorina	Mytilus	Nucella	Littorina	Mytilus	Littorina
			(ft)	1/4 m <sup>2</sup>	1 mm	0.5 mm	1/4 m <sup>2</sup>	Pop'n	Pop'n	Pop'n	Histo	Histo	Histo	Repro	Repro	Calcein
Elrington Island East																
Rocky	Rock	Up		F												
	Rock	Mid		F												F
	Rock	Low		F												
Soft	Gravel/sand	Mid														F
	Gravel/sand	Low														
Elrington Islet--East		Up		F												
Elrington Islet--West		Up		F												
Elrington Islet--North		Up		F												

Table A-1 (continued).

Location and site		Mytilus Calcein Tagging	Nucella Calc./Trans	Protobrachia Swd Trans	Littorina Swd Trans	Mytilus Swd Trans	Sediment tPAH	Spec Sed tPAH	Litt. Tiss.	Mytilus Tissue	Nucella Tissue	Proto. Tissue	Pycno. Tissue	Grn Size Analy.	TOC/ TKN	H20 Qual.	
<b>Category 1-Un{oiled}</b>																	
Bass Harbor(NA-27)							D					AD					D
Rocky							DF					F					
Boulder/cobble							ABD		ABD			B					E
							ABD										
Outside Bay (NA-26)							ABDF										
Soft 1							ABDF		D			B				F	F
							ABDF									F	DEF
							ABCDF										
							D					ABDF					
Soft 2	F																
Eshamy Bay (EB-7)							ABDF					D					
Rocky							ABDF		ABD			ABDF					
							BF					ABD					
Hogg Bay																	
Rocky																	
DF				D	D		BDF		ABD			ABD					CDEF
Sheep Bay							ABDF										
Soft							ABDF		D			ABDF					
							ABDF					AB				F	F
																F	DF
Bainbridge Bight																	
Soft																	
Crab Bay (EV-500)																	
Rocky	DF				D	D	CDF					DF				EF	F
																CDF	
Soft																	DEF
Seward	D								D	D						DF	F
																F	F
																	F

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Mytilus Calcein Tagging	Nucella Calc./Trans	Protothaca Swd Trans	Littorina Swd Trans	Mytilus Swd Trans	Sediment tPAH	Spec Sed tPAH	Litt. Tiss.	Mytilus Tissue	Nucella Tissue	Proto. Tissue	Pycno. Tissue	Grn Size Analy.	TOC/ TKN	H2O Qual.
<b>Category 2-Oiled, untreated</b>															
Northwest Bay															
West Arm Rock															
Herring Bay (KN-5000)															
Rocky						D			A	ABDF	A				DF
Soft	DF		D	D	BDF BDF BDF				D	DF	BD	F	B	DF	F
Bay of Isles (KN-07)															
Rocky						ABD		ABD	ABDF	AD					DF
Soft					ABD BD					B	D		D		D
Snug Harbor (KN-401)															
Rocky						ABDF		AB	ABDF	B			AB		DEF
Soft	DF		D	D	ABDF ABDF ABDF ABDF ADF ABDF			AD	ADF			DF	AB	DF	F
Block Island (EL-11)															
Soft				DE		BCDF	C		F		CDF	B	DF	F	F
Mussel Beach South															
Soft	F					ABDF			ABDF			F	B	DF	F
Crafton Island (CR-5)															
Soft						ABDF		AD	ABDF				AB	D	DEF
	F					ABDF									

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site		Mytilus Calcein Tagging	Nucella Calc./Trans	Protothaca	Littorina Swd Trans	Mytilus Swd Trans	Sediment tPAH	Spec Sed tPAH	Litt. Tiss.	Mytilus Tissue	Nucella Tissue	Proto. Tissue	Pycno. Tissue	Grn Size Anal.	TOC/ TKN	H2O Qual.	
Outside Bay (NA-26)																	
Rocky							ABF F BDF						ABD				
Ingot Island (IN-24)																	
Boulder/cobble	DF			D	D	BDF BDF			BD	BDF				AB		CDF	
Soft												B	D	B	DF	F	E
<b>Category 3—Oiled, treated</b>																	
Point Helen (KN-405) Site 1																	
Boulder/cobble		F						F ABDF BDF				AD	ABDF				
Point Helen (KN-405) Site 3														AB		DEF	
Boulder/cobble																	
Northwest Bay																	
Rocky Islet (EL-55)	DF			D	D	ADF ABDF ABDF			ABD	ABDF	B			AB		DEF	
West Arm Rock																F	
W. Arm Soft (EL-52)				DE			ABDF ABCDF		ABD	ABDF				DF	B	DF DF F	
Shelter Bay (EV-21)																	
Soft							DF ABDF ABCDF		ABD	ABDF				DF	B	DF F DF	

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Mytilus Calcein Tagging	Nucella Calc./Trans	Protothaca	Littorina Swd Trans	Mytilus Swd Trans	Sediment tPAH	Spec Sed tPAH	Litt. Tiss.	Mytilus Tissue	Nucella Tissue	Proto. Tissue	Pycno. Tissue	Grn Size Analy.	TOC/ TKN	H20 Qual.
Sleepy Bay (LA-18)						ABDF									
Soft						ABDF		D	ABDF					DF	F
						DF							B	DF	F
Ne Latouche Cobble (LA-15)						ABDF		ABD	ABDF						D
Boulder/cobble						BF									F
Smith Island (SM-06)						BD	D								
Boulder/cobble						ABD	D	ABD	ABD	ABD					
N-4						ABD							AB		DEFF
Mussel Beach South (EL-13)						D	D	DF		AB		B			D
Rocky	D														
Mussel Beach North (EL-13)															
Rocky															F
Omni Site							F			F					
Boulder/cobble															
Block Island (EL-11)						D	A		D						
Rocky	D								BD	ABDF	AB			F	CD
Soft	F					D	ABDF		B	B				F	
Erlington Island West								F							
Rocky								F							
Soft								F							F
								F							

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

Table A-1 (continued).

Location and site	Mytilus Calcein Tagging	Nucella Calc./Trans	Protothaca	Littorina	Mytilus Swd Trans	Sediment tPAH	Spec Sed tPAH	Litt. Tiss.	Mytilus Tissue	Nucella Tissue	Proto. Tissue	Pycno. Tissue	Grn Size Analy.	TOC/ TKN	H20 Qual.
Elrington Island East								F							
Rocky								F							
Soft								F			F				F
F															
Elrington Islet--East															
Elrington Islet--West															
Elrington Islet--North															

A=July 1990; B=September 1990; C=May 1991; D=July 1991; E=September 1991; F=July 1992.

**Table A-2 Global position system (GPS) latitude and longitude coordinates of sampling stations in Prince William Sound, 1991 to 1992.**

Date	Site	Station	Location	Latitude			Longitude			Fix Qual.
				Deg.	Min.	Sec.	Deg.	Min.	Sec.	
<b>Category 1--Unoiled</b>										
9/8/91	Bainbridge Bight	Low	Btwn old & new transects	60	07	02	148	14	58	
7/6/92	Bainbridge Bight	Low	Origin of new transect	60	06	59	148	14	48	
6/24/92	Barnes Cove, Drier Bay	Mussel		60	18	52	147	45	44	
7/7/91	Bass Harbor cobble	Mid		60	39	11	147	23	07	
9/6/91	Bass Harbor rocky	Upper		60	39	01	147	23	13	
7/9/91	Block Island	Supra	On large outcrop	60	31	48	147	36	26	
9/11/91	Block Island	Supra	On large outcrop	60	31	44	147	36	36	
6/27/92	Block Island	Supra	On large outcrop	60	31	49	147	36	29	
6/27/92	Block Island	Low	At transect terminus	60	31	48	147	36	24	
7/13/91	Crab Bay rocky	Supra	On large outcrop	60	03	41	147	59	32	
9/9/91	Crab Bay rocky	Supra	On large outcrop	60	03	39	147	59	40	
7/12/91	Crab Bay soft	Mid		60	04	19	147	59	47	
7/2/92	Crab Bay soft	Mid	Midpoint, 25 ft	60	04	19	147	59	48	
7/16/91	Eshamy Bay	Upper		60	28	08	147	59	52	
9/7/91	Eshamy Bay	Mid/lower		60	28	11	148	00	02	
7/4/92	Eshamy Bay	Mid	40 ft mark of transect	60	28	13	147	59	52	
9/8/91	Hogg Bay	Mid	On large outcrop	60	04	42	148	11	53	
7/7/91	Outside Bay rocky	Mid/upper		60	38	19	147	27	42	Poor
9/6/91	Outside Bay rocky	Lower	Nucella release site	60	38	19	147	27	49	
7/7/91	Outside Bay site 1	Mid		60	38	17	147	27	01	Poor
7/7/91	Outside Bay site 1	Upper		60	38	17	147	27	02	
9/6/91	Outside Bay site 2	Mid	Mytilus transplant	60	39	01	147	26	20	Poor
7/7/91	Sheep Bay	Upper	On isthmus	60	41	06	145	56	11	
6/29/92	Sheep Bay	Upper	Origin	60	41	06	145	56	09	
<b>Category 2--Oiled, untreated</b>										
7/9/91	Bay of Isles	Mid	On large outcrop	60	23	05	147	44	51	
7/9/91	Bay of Isles	Upper	Setaside	60	23	08	147	44	40	
9/10/91	Bay of Isles	Mid	On large outcrop	60	23	05	147	45	00	
7/15/91	Herring Bay	Mid		60	27	25	147	42	37	
9/11/91	Herring Bay rocky	Upper	On large outcrop	60	27	22	147	42	46	
6/28/92	Herring Bay rocky	Mid	Origin	60	27	28	147	42	38	
6/29/92	Herring Bay gravel	Low	Origin	60	27	25	147	42	30	
7/12/91	Snug Harbor rocky	-	75 m offshore	60	15	48	147	45	34	
9/9/91	Snug Harbor rocky	Mid	Transplant sites	60	15	46	147	45	44	Poor
7/1/92	Snug Harbor rocky	Low	On boulder above	60	15	51	147	45	35	
7/11/91	Snug Harbor soft	Mid		60	15	45	147	45	53	
6/30/92	Snug Harbor soft	Mid		60	15	43	147	45	57	

**Table A-2 (Continued).**

Date	Site	Station	Location	Latitude			Longitude			Fix Qual.
				Deg.	Min.	Sec.	Deg.	Min.	Sec.	
<b>Category 2--Oiled, treated</b>										
9/13/91	Crafton Island	Mid	At head stake	60	30	13	147	56	33	
7/4/92	Crafton Island	Mid	At 4th stake	60	29	49	147	56	34	Poor
7/16/91	Ingot Island	Low	Cobble gravel	60	31	38	147	39	26	
9/10/91	Ingot Island boulder/cobble	Mid	On large boulder	60	31	39	147	39	35	
7/10/91	Mussel Beach	Upper		60	32	06	147	36	53	
9/11/91	Mussel Beach	Upper	In mussel bed	60	32	05	147	37	01	
7/5/92	Mussel Beach rocky	Mid	Origin	60	32	09	147	36	57	Poor
7/5/92	Mussel Beach rocky	Mid	Origin	60	32	10	147	36	56	
7/7/92	North Elrington/East	Upper	Central beach above mid	60	02	08	147	59	40	
7/7/92	North Elrington/West/soft	Low	Origin	60	02	11	147	59	53	
7/14/91	NE Latouche	Mid		60	03	44	147	49	04	
7/2/92	NE Latouche	Mid	On large 6 ft boulder	60	03	44	147	49	04	
7/10/91	Northwest Bay Islet	Mid		60	33	24	147	35	06	
9/11/91	Northwest Bay Islet	Mid		60	33	22	147	35	16	
6/28/92	Northwest Bay Islet	Mid	30 ft mark	60	33	25	147	35	07	
7/10/91	NW Bay W. Arm gravel	Mid		60	32	38	147	36	09	
9/12/91	NW Bay W. Arm gravel	Low	Above clam plots	60	32	37	147	36	13	
6/28/92	NW Bay W. Arm gravel	Low	Midpoint, 45 ft	60	32	24	147	36	22	
6/27/92	NW Bay W. Arm rocky	Mid	Above stake @ 28 ft	60	33	11	147	36	20	
6/28/92	Omni Test Site	Mid		60	29	26	147	43	01	
7/15/91	Point Helen	Mid		60	09	49	147	45	13	Poor
9/7/91	Point Helen	Mid		60	09	48	147	45	22	
7/1/92	Point Helen, site 1 (south)	Mid	Large cylindrical boulder	60	09	15	147	45	44	
7/14/91	Shelter Bay	Mid		60	07	06	147	57	24	
7/3/92	Shelter Bay	Mid	Midpoint, 50 ft	60	07	06	147	57	14	
7/13/91	Sleepy Bay	Mid		60	03	56	147	50	04	
7/1/92	Sleepy Bay	Upper	Origin	60	03	56	147	50	08	
9/12/91	Smith Island	Mid		60	31	40	147	23	05	
6/25/92	Smith Island control, south	Transplant		60	31	27	147	21	19	

**Table A-3 Tidal elevations (ft) and date surveyed for sites and locations, Prince William Sound, June-July 1992.**

Site	Station	Location	Elev., ft	Date	Harbor Master Ref	Mean
Bainbridge Bight	Cobble-gravel/low	Terminus	1.040	7/6/92	Hogg Bay	
Bainbridge Bight	Cobble-gravel/low	Origin	1.115	7/6/92	Hogg Bay	
Bainbridge Bight	Cobble-gravel/low	Midpoint, 31'	1.345	7/6/92	Hogg Bay	1.297
Bainbridge Bight	Cobble-gravel/low	Terminus, 59'	1.378	7/6/92	Hogg Bay	
Bainbridge Bight	Cobble-gravel/low	Origin	1.608	7/6/92	Hogg Bay	
Bass Harbor	Cobble/up	Terminus	7.276	6/30/92	McPherson Passage	
Bass Harbor	Cobble/up	Midpoint, 45'	7.556	6/30/92	McPherson Passage	7.646
Bass Harbor	Cobble/up	Headstake	8.106	6/30/92	McPherson Passage	
Bay of Isles	Rock/mid	Lowest stake	3.690	7/8/92	Smith Island	
Bay of Isles	Rock/mid	Headstake	4.940	7/8/92	Smith Island	4.800
Bay of Isles	Rock/mid	Terminus	5.770	7/8/92	Smith Island	
Block Island	Gravel/lower	Origin, 0'	3.179	6/27/92	Eshamy	
Block Island	Gravel/lower	42' mark	3.438	6/27/92	Eshamy	3.588
Block Island	Gravel/lower	Terminus, 80'	4.147	6/27/92	Eshamy	
Block Island	Rocky/mid	Headstake	3.820	6/27/92	Eshamy	
Block Island	Gravel/mid	Terminus, 66'	6.293	6/27/92	Eshamy	
Block Island	Gravel/mid	Midpoint, 33'	6.322	6/27/92	Eshamy	6.492
Block Island	Gravel/mid	Origin, 0'	6.860	6/27/92	Eshamy	
Block Island	Rocky/upper	Headstake	8.266	6/27/92	Eshamy	
Block Island	Clam plot 8	SW corner of plot	3.510	7/9/92	Smith Island	
Block Island	Clam plot 10	SW corner of plot	3.514	7/9/92	Smith Island	
Block Island	Clam plot 6	SW corner of plot	3.566	7/9/92	Smith Island	
Block Island	Clam plot 7	SW corner of plot	3.589	7/9/92	Smith Island	
Block Island	Clam plot 5	SW corner of plot	3.593	7/9/92	Smith Island	
Block Island	Clam plot 9	SW corner of plot	3.593	7/9/92	Smith Island	
Block Island	Clam plot 4	SW corner of plot	3.743	7/9/92	Smith Island	
Block Island	Clam plot 2	SW corner of plot	3.825	7/9/92	Smith Island	
Block Island	Clam plot 3	SW corner of plot	3.878	7/9/92	Smith Island	
Block Island	Clam plot 1	SW corner of plot	4.022	7/9/92	Smith Island	
Block Island	Clam plot 11	SW corner of plot	4.035	7/9/92	Smith Island	
Block Island	Clam plot 15	SW corner of plot	4.039	7/9/92	Smith Island	
Block Island	Clam plot 13	SW corner of plot	4.042	7/9/92	Smith Island	
Block Island	Clam plot 12	SW corner of plot	4.065	7/9/92	Smith Island	
Block Island	Clam plot 14	SW corner of plot	4.078	7/9/92	Smith Island	
Crab Bay	Cobble-gravel/low	Origin	2.536	7/2/92	Sawmill Bay	
Crab Bay	Cobble-gravel/low	Midpoint, 50'	2.592	7/2/92	Sawmill Bay	2.628
Crab Bay	Cobble-gravel/low	Terminus, 84'	2.756	7/2/92	Sawmill Bay	
Crab Bay	Cobble-gravel/mid	Origin	5.118	7/2/92	Sawmill Bay	
Crab Bay	Cobble-gravel/mid	Midpoint, 25'	5.463	7/2/92	Sawmill Bay	5.487
Crab Bay	Cobble-gravel/mid	Terminus, 49'	5.879	7/2/92	Sawmill Bay	
Crab Bay	Cobble-gravel/upper	Origin	9.429	7/2/92	Sawmill Bay	
Crab Bay	Cobble-gravel/upper	Terminus, 39'	9.587	7/2/92	Sawmill Bay	9.508
Crafton Island	Cobble-gravel/low	Midpoint, 4th stake	2.720	7/4/92	Eshamy Bay	
Crafton Island	Cobble-gravel/low	Terminus	2.953	7/4/92	Eshamy Bay	2.947
Crafton Island	Cobble-gravel/low	Origin	3.169	7/4/92	Eshamy Bay	
Crafton Island	Cobble-gravel/mid	6th stake	4.613	7/4/92	Eshamy Bay	
Crafton Island	Cobble-gravel/mid	Midpoint, 4th stake	4.692	7/4/92	Eshamy Bay	5.009
Crafton Island	Cobble-gravel/mid	Origin	5.722	7/4/92	Eshamy Bay	
Crafton Island	Cobble-gravel/upper	Midpoint	8.117	7/4/92	Eshamy Bay	
Crafton Island	Cobble-gravel/upper	Terminus	8.566	7/4/92	Eshamy Bay	8.521
Crafton Island	Cobble-gravel/upper	Origin	8.881	7/4/92	Eshamy Bay	

Table A-3 (Continued).

Site	Station	Location	Elev., ft	Date	Harbor Master Ref	Mean
Elrington/East	Rocky/low	Midpoint, 30'	2.178	7/7/92	Sawmill Bay	
Elrington/East	Rocky/low	Origin	2.185	7/7/92	Sawmill Bay	
Elrington/East	Rocky/low	1st, 2nd, 3rd quads	2.198	7/6/92	Sawmill Bay	2.324
Elrington/East	Rocky/low	Origin	2.231	7/6/92	Sawmill Bay	
Elrington/East	Rocky/low	Terminus, 58'	2.828	7/7/92	Sawmill Bay	
Elrington/East	Rocky/mid	Origin	4.157	7/7/92	Sawmill Bay	
Elrington/East	Rocky/mid	Midpoint, stake #7	4.485	7/7/92	Sawmill Bay	
Elrington/East	Rocky/mid	Terminus, stake #10	5.098	7/7/92	Sawmill Bay	5.002
Elrington/East	Rocky/mid	Origin	5.560	7/6/92	Sawmill Bay	
Elrington/East	Rocky/mid	Origin	5.710	7/6/92	Sawmill Bay	
Elrington/East	Rocky/upper	Terminus	8.724	7/7/92	Sawmill Bay	
Elrington/East	Rocky/upper	Origin	9.541	7/7/92	Sawmill Bay	9.132
Elrington/West	Gravel/low	Terminus, 75'	1.476	7/6/92	Sawmill Bay	
Elrington/West	Gravel/low	Terminus, 75'	1.608	7/7/92	Sawmill Bay	
Elrington/West	Gravel/low	Origin	1.772	7/7/92	Sawmill Bay	
Elrington/West	Gravel/low	Origin & 1st stake	1.804	7/6/92	Sawmill Bay	1.788
Elrington/West	Gravel/low	Midpoint, 33'	1.936	7/7/92	Sawmill Bay	
Elrington/West	Gravel/low	Midpoint, 33'	2.133	7/6/92	Sawmill Bay	
Elrington/West	Rock/low	Terminus, 97'	3.556	7/6/92	Sawmill Bay	
Elrington/West	Rock/low	Headstake	3.906	7/6/92	Sawmill Bay	3.731
Elrington/Islet	West-rocky/upper	1st & 3rd quads	7.874	7/6/92	Sawmill Bay	
Elrington/Islet	North-rocky/upper	Terminus, 47'	7.940	7/7/92	Sawmill Bay	
Elrington/Islet	East-rocky/upper	4th quad	8.005	7/6/92	Sawmill Bay	
Elrington/Islet	North-rocky/upper	Origin	8.058	7/7/92	Sawmill Bay	7.999
Elrington/Islet	East-rocky/upper	3rd quad	8.071	7/6/92	Sawmill Bay	8.038
Elrington/Islet	West-rocky/upper	Terminus	8.333	7/6/92	Sawmill Bay	8.104
Eshamy Bay	Bedrock/low	Midpoint, 42'	0.741	7/4/92	Eshamy Bay	
Eshamy Bay	Bedrock/low	Origin	2.041	7/4/92	Eshamy Bay	2.554
Eshamy Bay	Bedrock/low	Terminus, 96'	4.879	7/4/92	Eshamy Bay	
Eshamy Bay	Bedrock/mid	Midpoint, 45'	4.984	7/4/92	Eshamy Bay	
Eshamy Bay	Bedrock/mid	Origin	5.761	7/4/92	Eshamy Bay	5.664
Eshamy Bay	Bedrock/mid	Terminus, 96'	6.247	7/4/92	Eshamy Bay	
Eshamy Bay	Bedrock/upper	Origin	8.724	7/4/92	Eshamy Bay	
Eshamy Bay	Bedrock/upper	Terminus, 41'	10.820	7/4/92	Eshamy Bay	9.772
Herring Bay	Gravel/low	Terminus, 97'	-0.092	6/29/92		
Herring Bay	Gravel/low	Midpoint, 49'	0.305	6/29/92		0.230
Herring Bay	Gravel/low	Origin, 0'	0.476	6/29/92		
Herring Bay	Rocky/mid	Terminus, 71'	5.016	6/28/92		
Herring Bay	Rocky/mid	Origin, 0'	5.364	6/28/92		5.374
Herring Bay	Rocky/mid	Midpoint, 34'	5.741	6/28/92		
Herring Bay	Gravel/upper	Origin, 0'	6.952	6/28/92		
Herring Bay	Gravel/upper	Terminus, 59'	7.241	6/28/92		7.205
Herring Bay	Gravel/upper	Midpoint, 30'	7.421	6/28/92		
Herring Bay	Rocky/upper	Terminus, 37'	9.587	6/28/92		
Herring Bay	Rocky/upper	Origin, 0'	9.692	6/28/92		9.639

Table A-3 (Continued).

Site	Station	Location	Elev., ft	Date	Harbor Master Ref	Mean
Hogg Bay	Rock/low	Quad 2	0.940	7/4/92	Hogg Bay	
Hogg Bay	Rock/low	Headstake	1.890	7/4/92	Hogg Bay	2.623
Hogg Bay	Rock/low	Terminus	5.040	7/4/92	Hogg Bay	
Hogg Bay	Rock/mid	Headstake	7.950	7/4/92	Hogg Bay	
Hogg Bay	Rock/up	Last quad	9.651	7/4/92	Hogg Bay	
Hogg Bay	Rock/up	Headstake	10.121	7/4/92	Hogg Bay	9.886
Hogg Bay	Rock	BP	14.011	7/4/92	Hogg Bay	
Ingot Island	Soft/mid	Terminus	3.130	6/29/92	Eshamy	
Ingot Island	Soft/mid	Headstake	3.290	6/29/92	Eshamy	3.250
Ingot Island	Soft/mid	Midpoint	3.330	6/29/92	Eshamy	
Mussel Beach North	Rock/low	Midpoint, 63' (Q10)	2.310	7/8/92	Eshamy Bay	
Mussel Beach North	Rock/low	Midpoint, 40.5' (Q6)	2.500	7/8/92	Eshamy Bay	2.405
Mussel Beach North	Rock/up	Headstake	10.547	7/8/92	Eshamy Bay	
Mussel Beach North	Rock/up	Terminus	10.947	7/8/92	Eshamy Bay	10.747
Mussel Beach North	Rock/mid	Headstake		7/8/92	Eshamy Bay	
Mussel Beach North	Rock/mid	Origin	5.217	7/5/92	Smith Island	
Mussel Beach North	Rock/mid	91' stake	5.577	7/5/92	Smith Island	5.577
Mussel Beach North	Rock/mid	74' stake	5.938	7/5/92	Smith Island	
Mussel Beach South	Cobble-gravel/low	Origin	-0.886	7/5/92	Smith Island	
Mussel Beach South	Cobble-gravel/low	Midpoint, 42'	-0.886	7/5/92	Smith Island	-0.886
Mussel Beach South	Cobble-gravel/low	Terminus, 80'	-0.886	7/5/92	Smith Island	
Mussel Beach South	Clam plot	Bottom edge of frame	1.017	7/10/92	Smith Island	
Mussel Beach South	Mussel bed/tombolo	North-south floods	5.118	7/5/92	Smith Island	
NE Latouche	Cobble/low	Terminus, 100'	0.577	7/2/92		
NE Latouche	Cobble/low	Origin	0.633	7/2/92		0.705
NE Latouche	Cobble/low	Midpoint, 50'	0.906	7/2/92		
NE Latouche	Cobble/mid	Terminus, 80'	3.051	7/2/92		
NE Latouche	Cobble/mid	Origin	3.114	7/2/92		3.191
NE Latouche	Cobble/mid	Midpoint, 50'	3.409	7/2/92		
NW Bay Islet	Rocky/low	Low point	0.880	6/28/92	Eshamy	
NW Bay Islet	Rocky/low	Bottom quad 1	1.760	6/28/92	Eshamy	2.463
NW Bay Islet	Rocky/low	Headstake	4.750	6/28/92	Eshamy	
NW Bay Islet	Rocky/mid	Low point	4.950	6/28/92	Eshamy	
NW Bay Islet	Rocky/mid	Headstake	8.990	6/28/92	Eshamy	6.970
NW Bay Islet	Rocky/up	Headstake	9.420	6/28/92	Eshamy	
NW Bay W. Arm	Gravel/low	Midpoint, 45'	0.466	6/28/92	Eshamy	
NW Bay W. Arm	Gravel/low	Terminus, 89'	0.479	6/28/92	Eshamy	0.631
NW Bay W. Arm	Gravel/low	Origin, 0'	0.948	6/28/92	Eshamy	
NW Bay W. Arm	Gravel/mid	Origin, 0'	5.961	6/28/92	Eshamy	
NW Bay W. Arm	Gravel/mid	Midpoint, 50'	6.253	6/28/92	Eshamy	6.202
NW Bay W. Arm	Gravel/mid	Terminus, 100'	6.391	6/28/92	Eshamy	
NW Bay W. Arm	Rocky/mid	Terminus, "treated"	7.497	6/27/92	Eshamy	
NW Bay W. Arm	Rocky/mid	Terminus, "untreated"	7.497	6/27/92	Eshamy	7.828
NW Bay W. Arm	Rocky/mid	Origin, 0'	8.491	6/27/92	Eshamy	

**Table A-3 (Continued).**

Site	Station	Location	Elev., ft	Date	Harbor Master Ref	Mean
Omni	Rocky/mid	Terminus	4.310	6/28/92	Eshamy	
Omni	Rocky/mid	Headstake	4.870	6/28/92	Eshamy	4.590
Outside Bay	Rocky/low	Midpoint	0.670	6/30/92	McPherson Passage	
Outside Bay	Rocky/low	Headstake	0.730	6/30/92	McPherson Passage	0.700
Outside Bay	Soft/mid	Headstake	4.898	6/29/92	McPherson Passage	
Outside Bay	Rocky/mid	Headstake	5.268	6/29/92	McPherson Passage	
Outside Bay	Rocky/up	Headstake	8.138	6/29/92	McPherson Passage	
Outside Bay	Soft/up	Headstake	9.338	6/29/92	McPherson Passage	
Outside Bay	Soft/up	Terminus	9.558	6/29/92	McPherson Passage	9.448
Outside Bay	Rocky/up	Midpoint, 17'	9.778	6/29/92	McPherson Passage	8.958
Point Helen	Cobble/low	Flood low	-1.513	7/2/92	Snug Harbor	
Point Helen	Cobble/low	Headstake	-1.400	7/2/92	Snug Harbor	-1.457
Point Helen	Cobble/mid	Headstake	4.160	7/2/92	Snug Harbor	
Point Helen	Cobble/up	Headstake	7.250	7/2/92	Snug Harbor	
Sheep Bay	Gravel/low	Origin, 0'	1.073	6/30/92		
Sheep Bay	Gravel/low	Terminus, 80'	3.465	6/30/92		2.269
Sheep Bay	Gravel/mid	Midpoint, 50'	4.331	6/29/92		
Sheep Bay	Gravel/mid	Terminus, 96'	4.429	6/29/92		4.549
Sheep Bay	Gravel/mid	Origin, 0'	4.888	6/29/92		
Sheep Bay	Gravel/upper	Terminus, 59'	9.042	6/30/92		
Sheep Bay	Gravel/upper	Origin, 0'	10.387	6/30/92		9.715
Shelter Bay	Cobble-gravel/low	Midpoint, 50'	0.942	7/3/92		
Shelter Bay	Cobble-gravel/low	Origin	1.017	7/3/92		1.016
Shelter Bay	Cobble-gravel/low	Terminus, 84'	1.089	7/3/92		
Shelter Bay	Cobble-gravel/mid	Midpoint, 50'	6.115	7/3/92		
Shelter Bay	Cobble-gravel/mid	Origin	6.148	7/3/92		6.179
Shelter Bay	Cobble-gravel/mid	Terminus, 84'	6.273	7/3/92		
Shelter Bay	Cobble-gravel/upper	Origin	8.566	7/3/92		
Sleepy Bay	Cobble/low	Terminus	-1.017	7/2/92		
Sleepy Bay	Cobble/low	Midpoint, 65'	-0.886	7/2/92		-0.853
Sleepy Bay	Cobble/low	Origin	-0.656	7/2/92		
Sleepy Bay	Cobble/mid	Midpoint	1.345	7/1/92		
Sleepy Bay	Cobble/mid	First stake, 10'	1.476	7/1/92		1.476
Sleepy Bay	Cobble/mid	Terminus,	1.608	7/1/92		
Sleepy Bay	Cobble/upper	Origin, 0'	3.412	7/1/92		
Sleepy Bay	Cobble/upper	Midpoint, 36'	3.622	7/1/92		3.560
Sleepy Bay	Cobble/upper	Terminus, 73'	3.645	7/1/92		
Smith Island	Transplant	Station 1, 3.0m	7.303	6/25/92	Smith Island	
Smith Island	Transplant-control	Station 3, 60.0m	7.306	6/25/92	Smith Island	
Smith Island	Transplant-control	Station 1, 8.0m	7.480	6/25/92	Smith Island	
Smith Island	Transplant-control	Station 2, 34.0m	7.480	6/25/92	Smith Island	
Smith Island	Transplant	Station 3, 31.5m	7.598	6/25/92	Smith Island	
Smith Island	Transplant	Station 5, 60.0m	7.612	6/25/92	Smith Island	

**Table A-3 (Continued).**

Site	Station	Location	Elev., ft	Date	Harbor Master Ref	Mean
Snug Harbor	Cobble/low	Midpoint, 50'	-0.505	7/1/92	Snug Harbor	
Snug Harbor	Cobble/low	Origin, 0'	-0.039	7/1/92	Snug Harbor	-0.147
Snug Harbor	Cobble/low	Terminus, 100'	0.105	7/1/92	Snug Harbor	
Snug Harbor	Rocky/low	Headstake	1.212	7/1/92	Snug Harbor	
Snug Harbor	Rocky/low	Midpoint	1.422	7/1/92	Snug Harbor	1.519
Snug Harbor	Rocky/low	Last quad	1.922	7/1/92	Snug Harbor	
Snug Harbor	Rocky/mid	Last quad	3.882	7/1/92	Snug Harbor	
Snug Harbor	Cobble/mid	Terminus, 96'	5.577	6/30/92	Snug Harbor	
Snug Harbor	Cobble/mid	Origin, 0'	5.709	6/30/92	Snug Harbor	5.741
Snug Harbor	Cobble/mid	Midpoint, 52'	5.938	6/30/92	Snug Harbor	
Snug Harbor	Rocky/mid	Headstake	6.382	7/1/92	Snug Harbor	
Snug Harbor	Rocky/up	Last quad	8.362	7/1/92	Snug Harbor	
Snug Harbor	Rocky/up	Headstake	8.462	7/1/92	Snug Harbor	8.412
Snug Harbor	Cobble/upper	Midpoint,	9.157	7/1/92	Snug Harbor	
Snug Harbor	Cobble/upper	Origin, 0'	9.278	7/1/92	Snug Harbor	9.275
Snug Harbor	Cobble/upper	Terminus, 58'	9.390	7/1/92	Snug Harbor	

**Table A-4 Water temperature (°C) and salinity (ppt) at sampling sites in Prince William Sound, 1992.**

<b>Site and category</b>	<b>Habitat</b>	<b>Depth</b>	<b>Date</b>	<b>Temperature</b>	<b>Salinity</b>
<b>Category 1--Unoiled</b>					
Bass Harbor	Boulder/cobble	1 ft	6/30/92	18.0	26.8
		8 ft	6/30/92	14.8	27.2
Outside Bay	Soft 1	1 ft	6/30/92	13.5	27.0
		8 ft	6/30/92	13.7	27.0
Outside Bay	Rock	1 ft	6/29/92	13.8	25.4
		8 ft	6/29/92	13.3	27.1
Eshamby Bay	Rock	1 ft	7/4/92	15.0	20.2
		1 ft	7/5/92	15.0	19.8
		7 ft	7/5/92	15.1	21.6
Hogg Bay	Rock	1 ft	7/3/92	15.9	25.0
		8 ft	7/3/92	15.8	25.2
	Rock	1 ft	7/4/92	14.7	24.1
		8 ft	7/4/92	14.9	26.5
Sheep Bay	Soft	1 ft	6/29/92	17.2	20.8
Bainbridge Bight	Soft	1 ft	7/6/92	7.8	6.8
Crab Bay	Rock	1 ft	7/2/92	12.8	26.9
		7 ft	7/2/92	12.0	27.2
	Rock	1 ft	7/3/92	12.1	26.1
		8 ft	7/3/92	11.4	27.0
	Soft	1 ft	7/2/92	17.5	23.0
<b>Category 2--Oiled, untreated</b>					
Herring Bay	Soft	1 ft	6/27/92	12.2	20.2
	Rock	1 ft	6/28/92	14.7	26.0
		8 ft	6/28/92	12.7	27.0
Block Island	Soft	1 ft	6/27/92	12.5	23.0
Snug Harbor	Rock	1 ft	7/1/92	10.3	17.5
		7 ft	7/1/92	13.0	27.2
	Soft	1 ft	6/30/92	9.5	8.5
		1 ft	7/1/92	12.0	13.0
Mussel Beach South	Soft	1 ft	6/26/92	12.9	25.0
		6 ft	6/26/92	12.9	23.6

**Table A-4 (Continued).**

<b>Site and category</b>	<b>Habitat</b>	<b>Depth</b>	<b>Date</b>	<b>Temperature</b>	<b>Salinity</b>
Bay of Isles	Rock	1 ft	7/8/92	14.2	23.5
		7 ft	7/8/92	14.2	23.8
Crafton Island	Soft	1 ft	7/5/92	15.2	20.8
		7 ft	7/5/92	15.6	23.0
<b>Category 3--Oiled, treated</b>					
Ingot Island	Boulder/cobble	1 ft	6/29/92	12.7	25.6
		8 ft	6/29/92	12.0	27.2
Point Helen	Boulder/cobble	1 ft	7/1/92	15.7	26.9
		8 ft	7/1/92	15.1	26.9
		1 ft	7/2/92	13.8	27.0
		3 ft	7/2/92	13.8	26.9
Northwest Bay Islet	Rock	1 ft	6/28/92	13.8	27.2
		8 ft	6/28/92	13.2	27.2
Northwest Bay W Arm	Rock	1 ft	6/27/92	13.0	24.0
Shelter Bay	Soft	1 ft	7/3/92	13.2	23.2
NE Latouche	Boulder/cobble	1 ft	7/2/92	13.9	18.9
Sleepy Bay	Soft	1 ft	7/1/92	15.0	23.8
Omni Site	Boulder/cobble	1 ft	6/28/92	14.0	24.0
		8 ft	6/28/92	12.7	27.0
Smith Island	Boulder/cobble	1 ft	6/25/92	11.3	28.0
Elrington West	Rock	1 ft	7/6/92	11.7	26.3
		8 ft	7/6/92	10.9	27.2
Mussel Beach North	Rock	1 ft	7/5/92	14.8	24.1
		8 ft	7/5/92	14.2	24.5

**Table A-5** Grain size analysis raw data by location, low mixed-soft, July 1992 (data presented as percent of total displacement volume for each size fraction).

Category/location	Size fraction								Silt/clay
	12.5 mm	6.3 mm	2.0 mm	1.0 mm	500 $\mu$	250 $\mu$	125 $\mu$	63 $\mu$	
<b>Category 1- Unoiled</b>									
Bainbridge Bight	8.25	16.79	17.56	10.08	5.95	7.49	10.56	7.20	16.12
Crab Bay	28.31	5.57	15.53	7.49	12.79	14.16	3.47	1.37	11.32
Outside Bay	11.89	16.60	18.68	16.42	11.51	7.17	5.47	4.72	7.55
Sheep Bay	15.51	24.17	18.63	6.85	6.65	5.84	5.84	3.63	12.89
<b>Category 2 - Oiled, untreated</b>									
Block Island	42.72	16.50	12.43	7.38	5.83	9.32	3.50	0.78	1.55
Herring Bay	3.20	14.66	30.08	12.03	8.93	8.36	3.48	2.82	16.45
Mussel Beach	33.45	13.15	24.06	6.46	3.64	4.58	1.76	3.99	8.92
Snug Harbor	78.10	4.09	3.50	1.17	0.58	1.02	1.46	1.90	8.18
<b>Category 3 - Oiled, treated</b>									
Elrington West	41.10	9.82	5.02	2.05	6.62	22.83	1.94	2.28	8.33
NW Bay W. Arm	25.21	31.82	33.05	5.39	1.71	0.49	0.49	0.37	1.47
Shelter Bay	30.57	10.92	17.03	12.23	7.53	13.65	4.15	1.42	2.51
Sleepy Bay	39.57	17.50	18.26	10.65	6.24	2.44	1.83	2.59	0.91

**Table A-6** Sediment total organic carbon (TOC) and total Kjehldahl nitrogen (TKN) from low mixed-soft locations, July 1992. No significant differences found in any ANOVA or t-tests for TOC. (\* = <0.10)

<b>Location and category</b>	<b>TKN (in parts/million)</b>	<b>t-test</b>	<b>TOC (in parts/million)</b>
<b>Category 1 - Unoiled</b>			
Bainbridge Bight	282		19,800
Crab Bay	512		42,700
Outside Bay	180		10,900
Sheep Bay	316		15,200
Mean	323	1 vs 3*	22,150
Standard Deviation	139		14,174
<b>Category 2 - Oiled, untreated</b>			
Block Island	403		21,300
Herring Bay	199		16,600
Ingot Island	402		43,289
Mussel Beach	323		36,400
Snug Harbor	2,190		47,929
Mean	703	2 vs 3*	33,104
Standard Deviation	835		13,657
<b>Category 3 - Oiled, treated</b>			
Elrington Island W	231		7,940
NW Bay W Arm	56		9,440
Shelter Bay	122		6,120
Sleepy Bay	176		11,200
Mean	146		8,675
Standard Deviation	75		2,162

**Table A-7 Comparison of rocky, middle intertidal epibiota original counts and counts from QA sampling at Block Island, July 1992.**

Taxon	Block Island Original Counts							Block Island QA Counts								
	Q1	Q2	Q3	Q4	Q5	Q6	Mean	S.D.	Q1	Q2	Q3	Q4	Q5	Q6	Mean	S.D.
<b>Algae (% cover)</b>																
Blue-green algae, spheroid	0.5	0	0	0	0.5	0.5	0.25	0.27	0	0	0	0.5	0	0.5	0.17	0.26
Blue-green algae, crust	0	0.5	0	0	0	0	0.08	0.20	0	0	0	0	0	0	0.00	0.00
Chaetomorpha spp.	1	0	0	0	0	0	0.17	0.41	0	0	0	0	0	0	0.00	0.00
Endozoic green algae	0	0.5	0.5	5	0.5	0.5	1.17	1.89	0	0.5	0	0.5	0	0.5	0.25	0.27
Fucus gardneri	65	100	95	100	35	50	74.17	28.18	75	100	95	95	35	65	77.50	24.85
Fucus gardneri (sporelings)	0.5	0	0	0	0.5	0	0.17	0.26	0.5	0	0	0	0.5	0.5	0.25	0.27
Gloiopektis furcata	1	0	0.5	0.5	0.5	0.5	0.50	0.32	2	0	0	0.5	0.5	0.5	0.58	0.74
Halosaccion glandiforme	0	0.5	0	0.5	0	0	0.17	0.26	0	0	0	0	0	0	0.00	0.00
Hildenbrandia rubra	0.5	1	3	0.5	0.5	3	1.42	1.24	0.5	0.5	2	1	0.5	10	2.42	3.76
Pilayella littoralis	0	0	0	0	0	4	0.67	1.63	0	1	0	0	0	1	0.33	0.52
Neorhodomela oregonia	0	0	0	5	0	0	0.83	2.04	0	0	0	4	0.5	0	0.75	1.60
Monostroma revillei	0	0.5	0	0	0	0	0.08	0.20	0	0	0	0	0	0	0.00	0.00
<b>Invertebrates (% cover)</b>																
Balanus glandula (%)	1	0.5	0.5	0.5	0	0	0.42	0.38	2	1	1	3	1	3	1.83	0.98
Balanus glandula (% set)	0	0	0	0	0	0	0.00	0.00	0	0	0	0	0.5	0	0.08	0.20
Chthamalus dalli (% set)	0.5	0	0	0	0	0	0.08	0.20	0	0	0	0	0.5	0	0.08	0.20
Chthamalus dalli (%)	0.5	0	0.5	0	0.5	0	0.25	0.27	0	0	0	0	0.5	0.5	0.17	0.26
Encrusting bryozoan (%)	0	0.5	0	0	0	0	0.08	0.20	0	0	0	0	0	0	0.00	0.00
Mytilus edulis (%)	2	15	2	20	5	10	9.00	7.38	5	12	3	7	7	7	6.83	2.99
Mytilus edulis (% spat)	0	0	0	0	0	0.5	0.08	0.20	0.5	0.5	0.5	0.5	0.5	0.5	0.50	0.00
Semibalanus balanoides (%)	0	0	0	0	0	0	0.00	0.00	0	0	0.5	0	0.5	0.5	0.25	0.27
Semibalanus balanoides (%)	25	10	20	15	30	35	22.50	9.35	20	2	25	5	20	15	14.50	9.14
Semibalanus cariosus (%)	0	0.5	0.5	0	0	0.5	0.25	0.27	0	0	0	0	0	0	0.00	0.00
Spirorbidae, unid. (%)	0	0	0	0	0	0	0.00	0.00	0	0	0	0.5	0	0	0.08	0.20
Balanus/Semibalanus spp. (% set)	0	0	0	0	1	1	0.33	0.52	0.5	0	0	0	0	0	0.08	0.20
Littorina spp., eggs (%)	0.5	0	0	0	0	0.5	0.17	0.26	0	0	0	0	0	0	0.00	0.00

Table A-7 (continued).

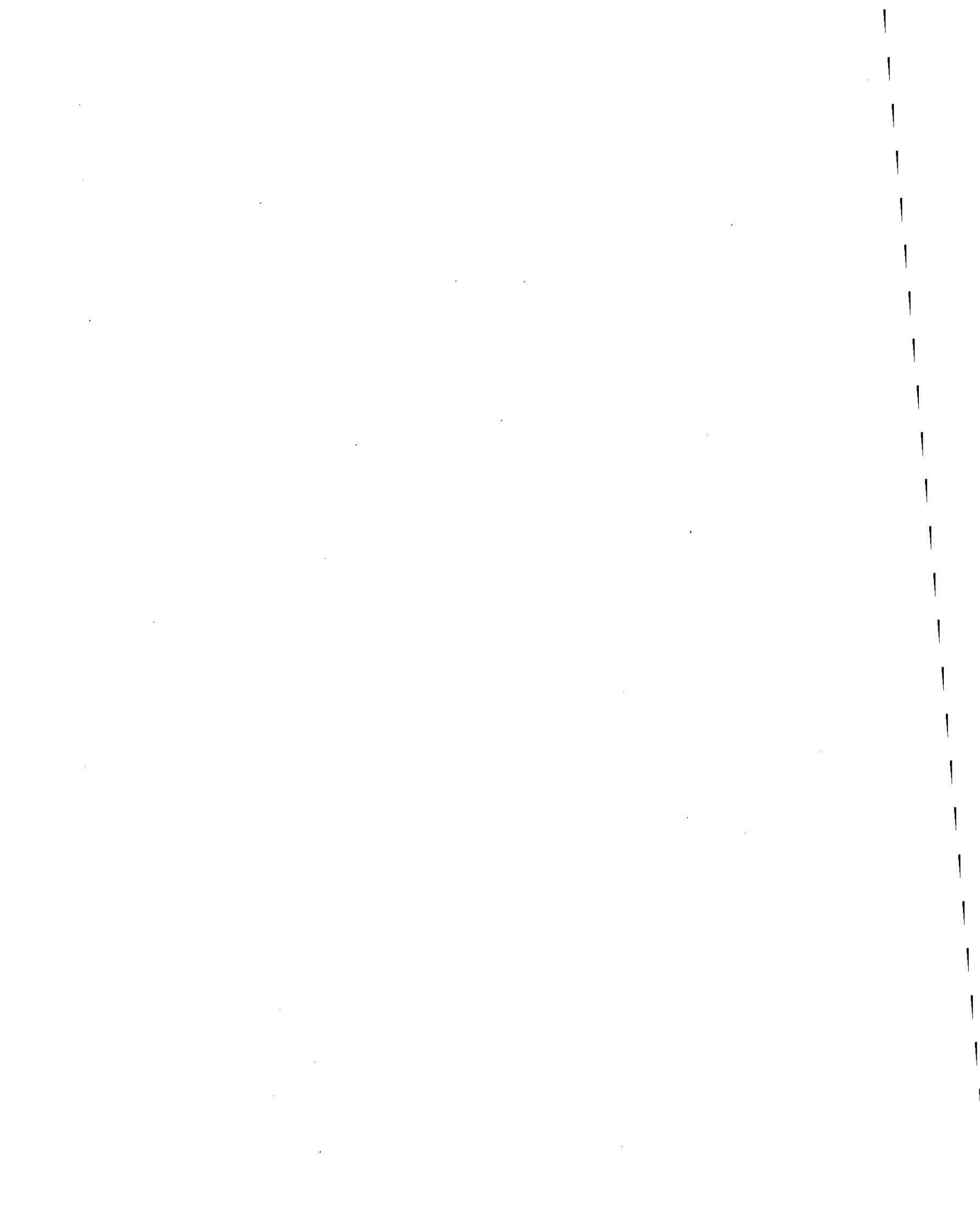
Taxon	Block Island Original Counts							Block Island QA Counts								
	Q1	Q2	Q3	Q4	Q5	Q6	Mean	S.D.	Q1	Q2	Q3	Q4	Q5	Q6	Mean	S.D.
<b>Invertebrates (#)</b>																
<i>Anthopleura artemisia</i>	0	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0	0.17	0.41
<i>Buccinum baeri</i>	0	1	0	0	0	0	0.17	0.41	0	0	0	0	0	0	0.00	0.00
<i>Lacuna</i> spp.	0	2	0	0	0	0	0.33	0.82	0	0	0	0	0	0	0.00	0.00
<i>Littorina scutulata</i>	212	72	32	88	150	100	109.00	63.42	82	40	44	32	340	56	99.00	119.34
<i>Littorina sitkana</i>	48	132	60	172	64	108	97.33	48.64	56	156	80	100	64	84	90.00	35.84
<i>Lottia pelta</i>	24	8	44	9	23	26	22.33	13.19	4	5	14	6	4	8	6.83	3.82
<i>Lottia strigatella</i>	0	0	0	0	3	0	0.50	1.22	9	1	12	2	16	6	7.67	5.82
<i>Lottiidae</i> , unid.	0	0	2	0	0	0	0.33	0.82	0	0	0	0	0	0	0.00	0.00
<i>Lottiidae</i> , unid. (juv.)	0	4	0	7	1	0	2.00	2.90	7	2	4	4	2	0	3.17	2.40
<i>Pagurus granosimanus</i>	0	0	0	0	0	0	0.00	0.00	0	0	0	4	0	0	0.67	1.63
<i>Pagurus hirsutiusculus</i>	7	52	5	92	5	13	29.00	35.75	48	18	26	20	9	54	29.17	17.87
<i>Paranemertes peregrina</i>	1	0	0	0	0	0	0.17	0.41	0	0	0	0	0	0	0.00	0.00
<i>Pentidotea wosnesenskii</i>	0	0	0	0	0	0	0.00	0.00	0	0	1	0	0	0	0.17	0.41
<i>Tectura persona</i>	12	0	0	0	0	0	2.00	4.90	3	0	5	0	1	17	4.33	6.50
<i>Nereis vexillosa</i>	0	1	0	0	0	0	0.17	0.41	0	0	0	0	0	0	0.00	0.00
<i>Tectura testudinalis</i>	0	0	0	0	0	4	0.67	1.63	0	0	0	0	0	0	0.00	0.00
<i>Lottiidae</i> all lumped	36	12	46	16	27	30	27.83	12.59	23	8	35	12	23	31	22.00	10.47
<b>Invertebrates, dead (% or #)</b>																
<i>Balanus glandula</i> (% dead)	0	0	0	0	0	0	0.00	0.00	0	0	0	0.5	0	0	0.08	0.20
<i>Mytilus edulis</i> (dead) (#)	2	0	1	0	1	8	2.00	3.03	0	3	0	3	0	3	1.50	1.64
<i>Semibalanus balanoides</i> (% dead)	0.5	0	0.5	0	0.5	0	0.25	0.27	0.5	0.5	1	0	0.5	0	0.42	0.38
<b>Substrata (%)</b>																
Rock (%)	100	100	100	100	100	100	100.00	0.00	100	100	100	100	100	100.00	0.00	
Water (%)	0	0	0	0	0	0	0.00	0.00	0	0	0	0	7	0	1.17	2.86

Table A-7 (continued).

Taxon	Diff in means		Difference in individual quads				
	Orig-QA	Q1	Q2	Q3	Q4	Q5	Q6
<b>Algae (% cover)</b>							
Blue-green algae, spheroid	0.08	0.5	0	0	-0.5	0.5	0
Blue-green algae, crust	0.08	0	0.5	0	0	0	0
Chaetomorpha spp.	0.17	1	0	0	0	0	0
Endozoic green algae	0.92	0	0	0.5	4.5	0.5	0
Fucus gardneri	-3.33	-10	0	0	5	0	-15
Fucus gardneri (sporelings)	-0.08	0	0	0	0	0	-0.5
Gloiopeltis furcata	-0.08	-1	0	0.5	0	0	0
Halosaccion glandiforme	0.17	0	0.5	0	0.5	0	0
Hildenbrandia rubra	-1.00	0	0.5	1	-0.5	0	-7
Pilayella littoralis	0.33	0	-1	0	0	0	3
Neorhodomela oregonia	0.08	0	0	0	1	-0.5	0
Monostroma grevillei	0.08	0	0.5	0	0	0	0
<b>Invertebrates (% cover)</b>							
Balanus glandula (%)	-1.42	-1	-0.5	-0.5	-2.5	-1	-3
Balanus glandula (% set)	-0.08	0	0	0	0	-0.5	0
Chthamalus dalli (% set)	0.00	0.5	0	0	0	-0.5	0
Chthamalus dalli (%)	0.08	0.5	0	0.5	0	0	-0.5
Encrusting bryozoan (%)	0.08	0	0.5	0	0	0	0
Mytilus edulis (%)	2.17	-3	3	-1	13	-2	3
Mytilus edulis (% spat)	-0.42	-0.5	-0.5	-0.5	-0.5	-0.5	0
Semibalanus balanoides (%)	-0.25	0	0	-0.5	0	-0.5	-0.5
Semibalanus balanoides (%)	8.00	5	8	-5	10	10	20
Semibalanus cariosus (%)	0.25	0	0.5	0.5	0	0	0.5
Spirorbidae, unid. (%)	-0.08	0	0	0	-0.5	0	0
Balanus/Semibalanus spp. (% set)	0.25	-0.5	0	0	0	1	1
Littorina spp., eggs (%)	0.17	0.5	0	0	0	0	0.5

Table A-7 (continued).

Taxon	Diff in means Orig-QA	Difference in individual quads					
		Q1	Q2	Q3	Q4	Q5	Q6
<b>Invertebrates (#)</b>							
<i>Anthopleura artemisia</i>	-0.17	0	0	0	-1	0	0
<i>Buccinum baeri</i>	0.17	0	1	0	0	0	0
<i>Lacuna</i> spp.	0.33	0	2	0	0	0	0
<i>Littorina scutulata</i>	10.00	130	32	-12	56	-190	44
<i>Littorina sitkana</i>	7.33	-8	-24	-20	72	0	24
<i>Lottia pelta</i>	15.50	20	3	30	3	19	18
<i>Lottia strigatella</i>	-7.17	-9	-1	-12	-2	-13	-6
<i>Lottiidae</i> , unid.	0.33	0	0	2	0	0	0
<i>Lottiidae</i> , unid. (juv.)	-1.17	-7	2	-4	3	-1	0
<i>Pagurus granosimanus</i>	-0.67	0	0	0	-4	0	0
<i>Pagurus hirsutiusculus</i>	-0.17	-41	34	-21	72	-4	-41
<i>Paranemertes peregrina</i>	0.17	1	0	0	0	0	0
<i>Pentidotea wosnesenskii</i>	-0.17	0	0	-1	0	0	0
<i>Tectura persona</i>	-2.33	9	0	-5	0	-1	-17
<i>Nereis vexillosa</i>	0.17	0	1	0	0	0	0
<i>Tectura testudinalis</i>	0.67	0	0	0	0	0	4
<i>Lottiidae</i> all lumped	5.83	13	4	11	4	4	-1
<b>Invertebrates, dead (% or #)</b>							
<i>Balanus glandula</i> (% dead)	-0.08	0	0	0	-0.5	0	0
<i>Mytilus edulis</i> (dead) (#)	0.50	2	-3	1	-3	1	5
<i>Semibalanus balanoides</i> (% dead)	-0.17	0	-0.5	-0.5	0	0	0
<b>Substrata (%)</b>							
Rock (%)	0.00	0	0	0	0	0	0
Water (%)	-1.17	0	0	0	-7	0	0



## **APPENDIX B**

**Table B-1 Summary of sediment PAH data from biological sampling sites in Prince William Sound, 1990 to 1992.**

Location	Treatment Category	Elevation	Substrate	Total PAH (ppm)		
				1990	1991	1992
Bainbridge Bight	1	Low	Mixed soft	0.00051		
Bass Harbor	1	Mid	Boulder/cobble	0.00050	0.00600	
Bay of Isles	2	Low	Mixed soft	2.00000	1.10000	
Bay of Isles	2	Mid	Rocky		4.40000	
Block Island	2	Low	Mixed soft	0.48000	3.80000	0.78000
Block Island	3	Upper	Mixed soft	2.50000	0.89000	
Crab Bay	1	Low	Mixed soft	0.00320		0.00560
Crafton Island	2	Low	Mixed soft	0.08800	0.33000	
Crafton Island	2	Mid	Mixed soft	0.01700	0.09500	
Elrington Island East	2	Low	Mixed soft			0.04800
Herring Bay	2	Low	Mixed soft	0.00050	0.00450	0.00000
Herring Bay	2	Low	Rocky		0.06600	
Herring Bay	2	Mid	Mixed soft	0.00090	0.00110	
Herring Bay	2	Mid	Rocky	8.10000	0.59000	
Ingot Island	2	Low	Mixed soft		0.02500	0.01500
Ingot Island	3	Mid	Rocky		7.20000	
Ingot Island	3	Upper	Rocky		0.04500	
Mussel Beach	2	Low	Mixed soft	0.04900	0.08200	0.02300
Mussel Beach	2	Mid	Mixed soft	0.14000	0.49000	
NE Latouche Island	3	Mid	Boulder/cobble	0.00310	0.07000	
Northwest Bay Islet	3	Low	Rocky	64.00000	5.80000	
Northwest Bay Islet	3	Mid	Rocky	1.40000	0.17000	
Northwest Bay Islet	3	Supralit	Rocky		38.00000	
Northwest Bay Islet	3	Upper	Rocky	0.14000	0.22000	
Northwest Bay West Arm	3	Low	Mixed soft	0.00580	0.03000	0.02000
Northwest Bay West Arm	3	Mid	Mixed soft	0.33000	6.70000	
Outside Bay Site 1	1	Low	Mixed soft	0.00010	0.00037	0.00160
Point Helen	3	Low	Boulder/cobble		0.00260	
Point Helen	3	Mid	Boulder/cobble	0.00340	10.00000	
Sheep Bay	1	Low	Mixed soft	0.00040		0.00000
Shelter Bay	3	Low	Mixed soft	0.37000	0.02700	0.01900
Shelter Bay	3	Mid	Mixed soft	15.00000	0.05400	
Sleepy Bay	3	Low	Mixed soft	0.00510	0.12000	0.09900
Sleepy Bay	3	Mid	Mixed soft	0.02900	0.39000	
Smith Island	3	Low	Boulder/cobble	0.00240	0.02400	
Smith Island	3	Mid	Boulder/cobble	0.06700	0.74000	
Smith Island	3	Upper	Boulder/cobble		0.09400	
Snug Harbor	2	Low	Mixed soft	0.00240	0.00550	0.04300
Snug Harbor	2	Low	Rocky	0.01300	0.21000	
Snug Harbor	2	Mid	Mixed soft	0.09200	0.13000	
Snug Harbor	2	Mid	Rocky	20.00000	0.42000	
Snug Harbor	2	Upper	Mixed soft	0.04100	0.06800	
Snug Harbor	2	Upper	Rocky	16.00000	11.00000	
<u>Selected average</u>				0.09200	0.45000	0.08800

\* Only sites with data in 1992 are used.

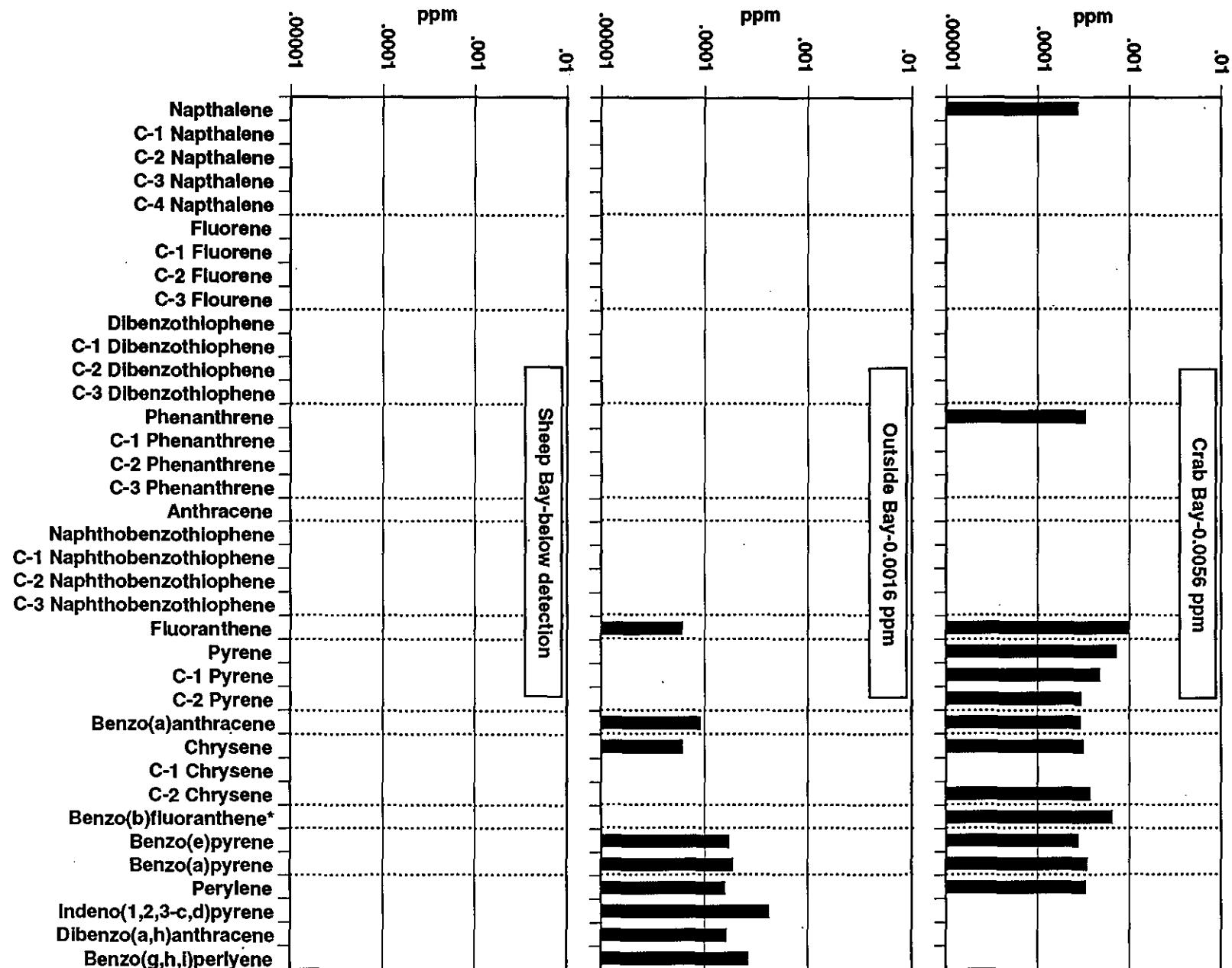


Figure B-1. Scaled display for average concentrations of PAH compounds in sediments (wet weight) at Category 1 mixed soft sites during 1992.

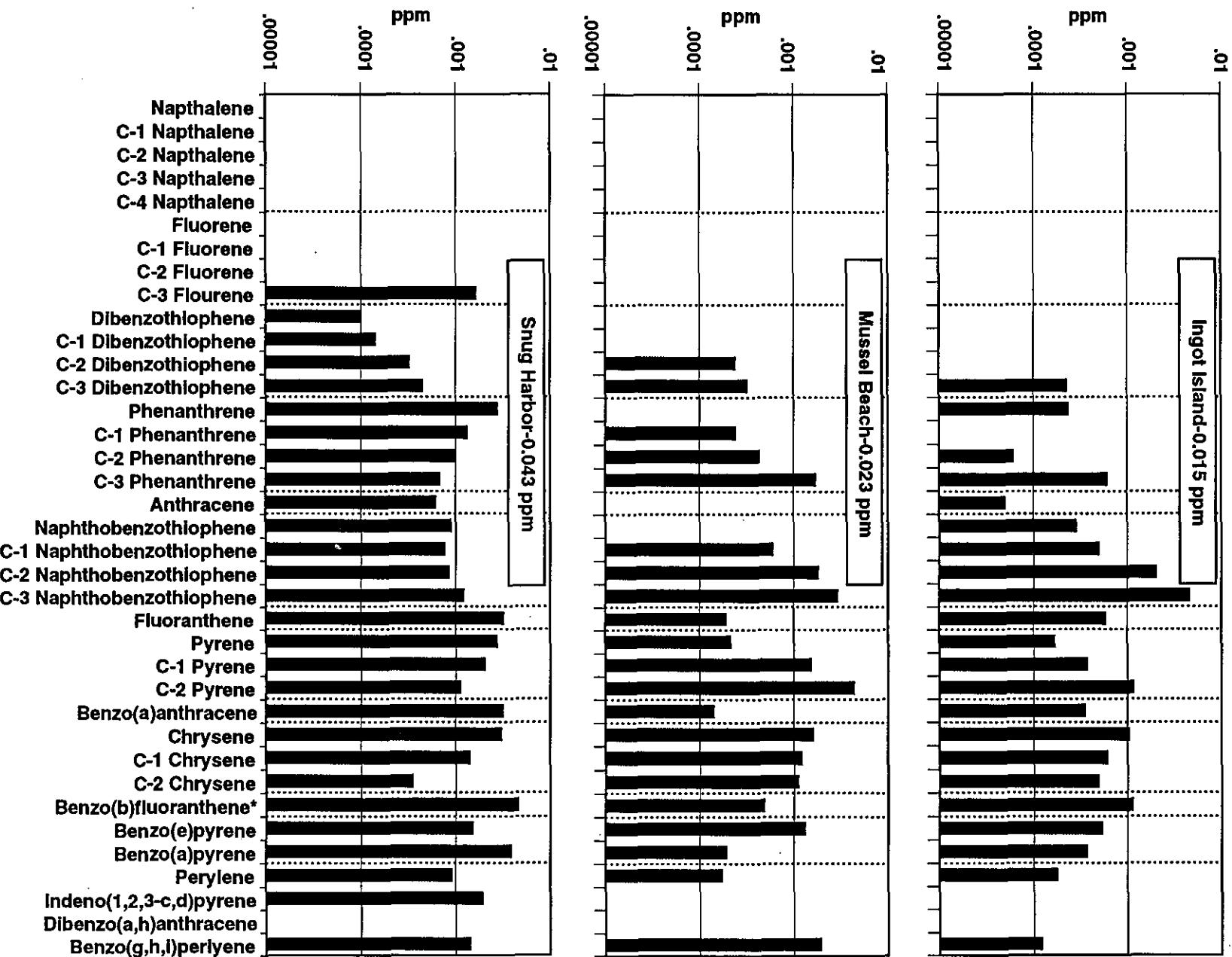
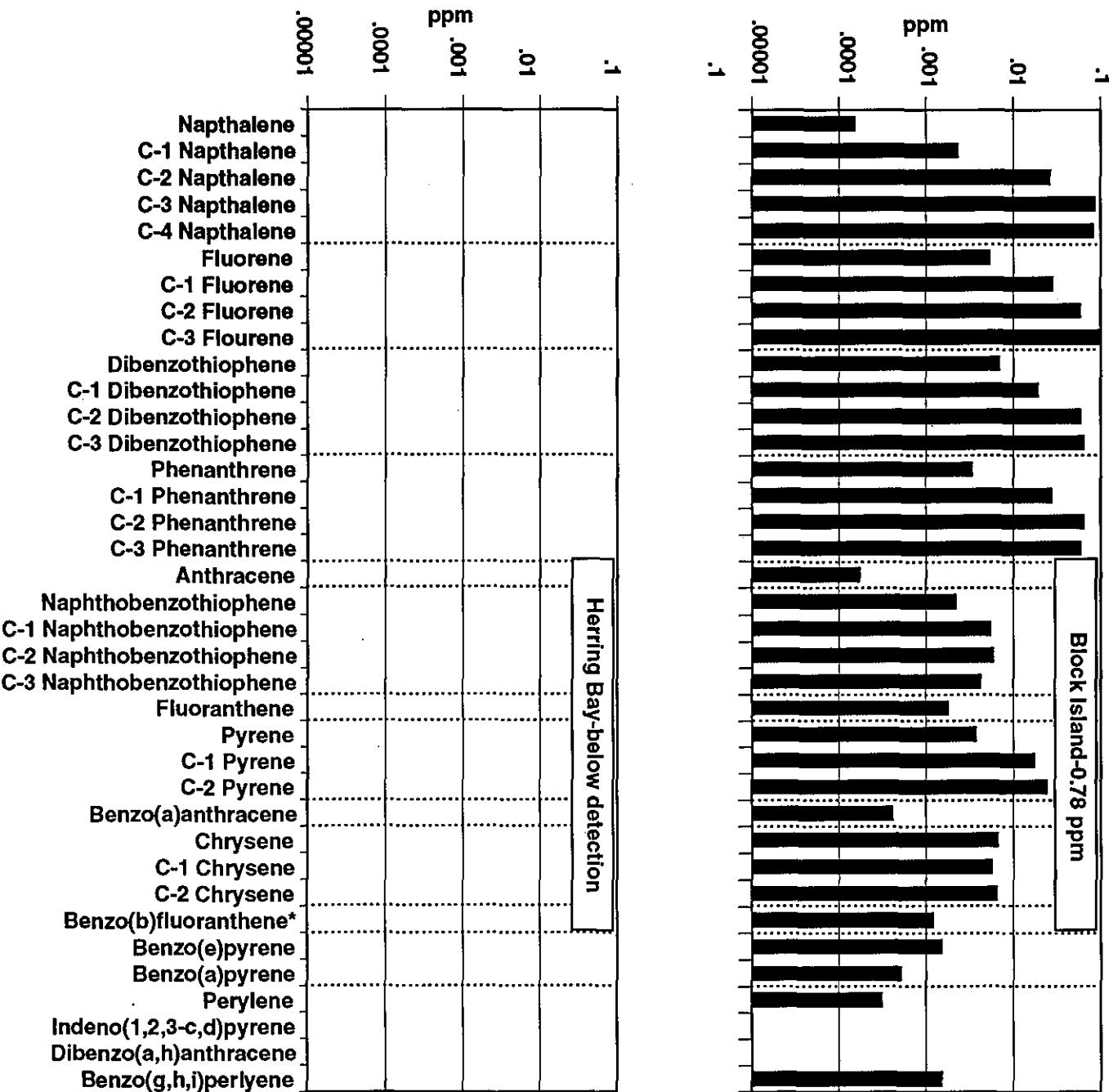


Figure B-2. Scaled display for average concentrations of PAH compounds in sediments (wet weight) at Category 2 lower mixed-soft sites.

Figure B-2. (continued)



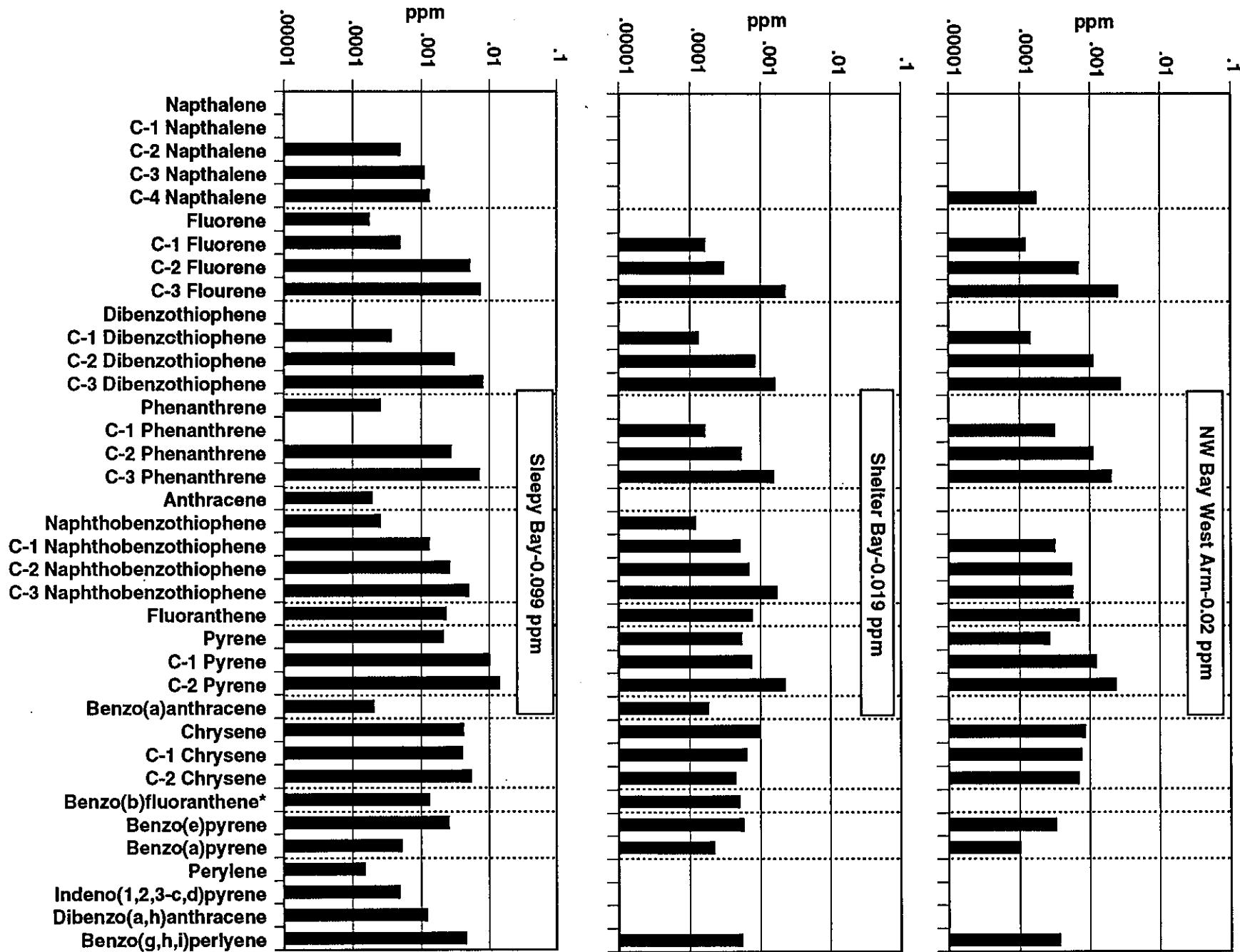
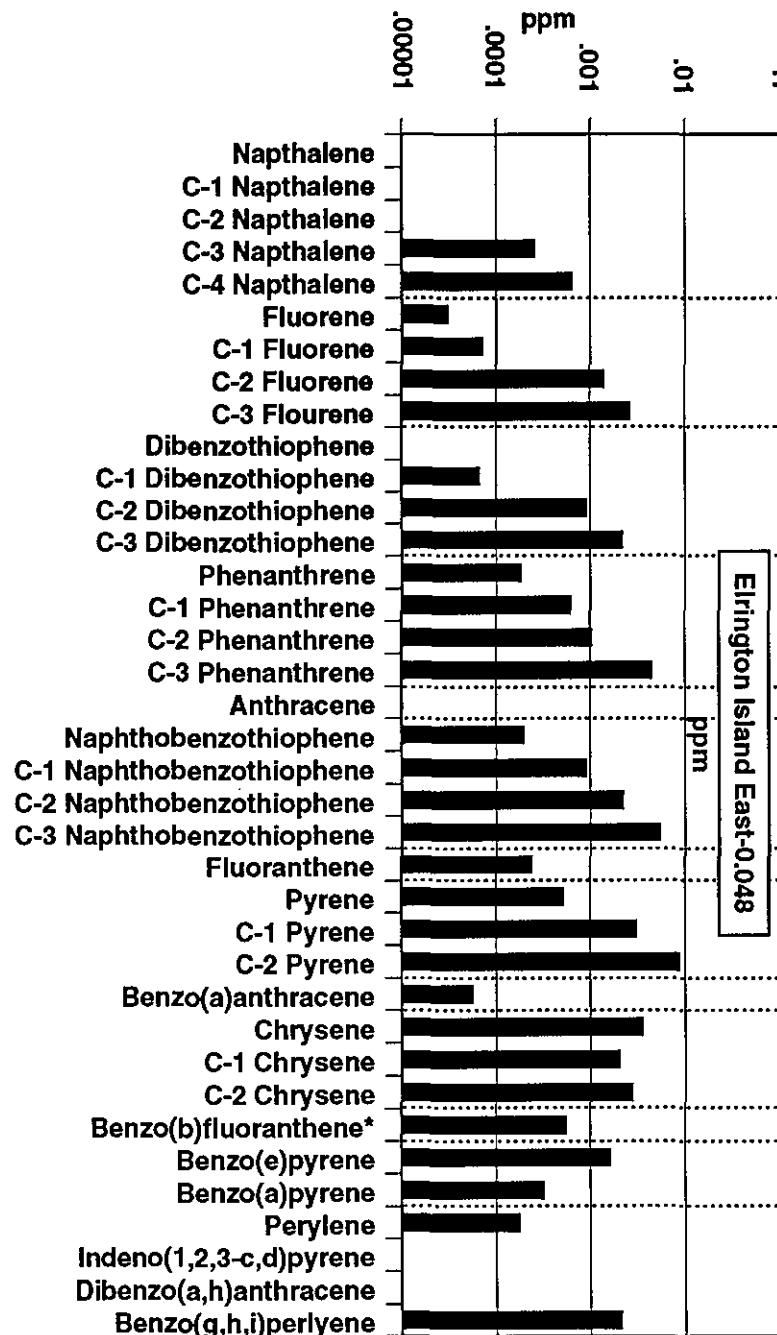
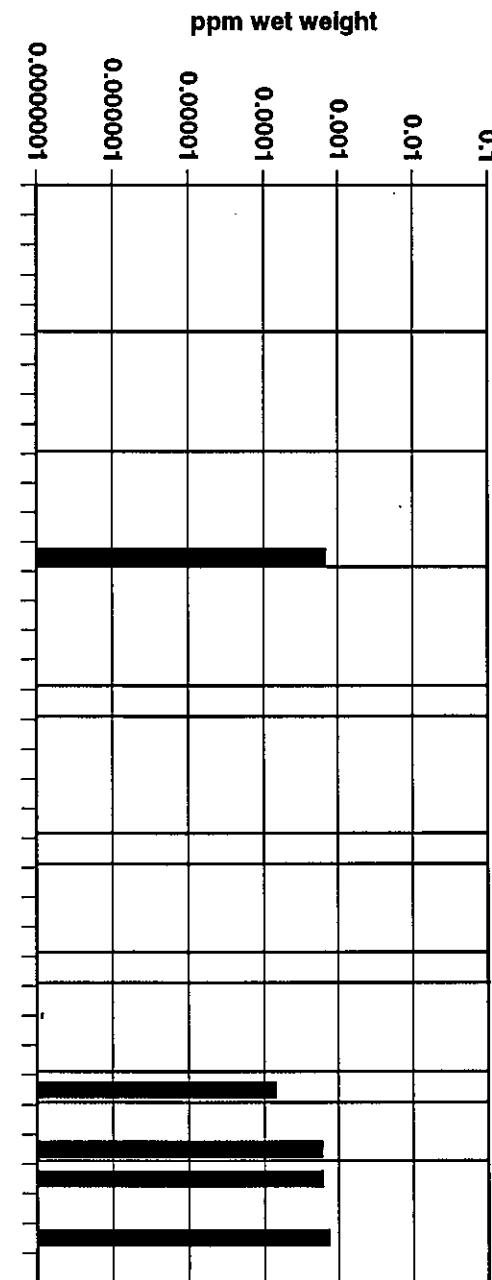


Figure B-3. Scaled display for average concentrations of PAH compounds in sediments (wet weight) at Category 3 lower mixed-soft sites.

Figure B-3. 9(continued)



Bainbridge Bight TPAH = 0.0166 ppm dry weight



Crab Bay TPAH = 0.0180 ppm dry weight

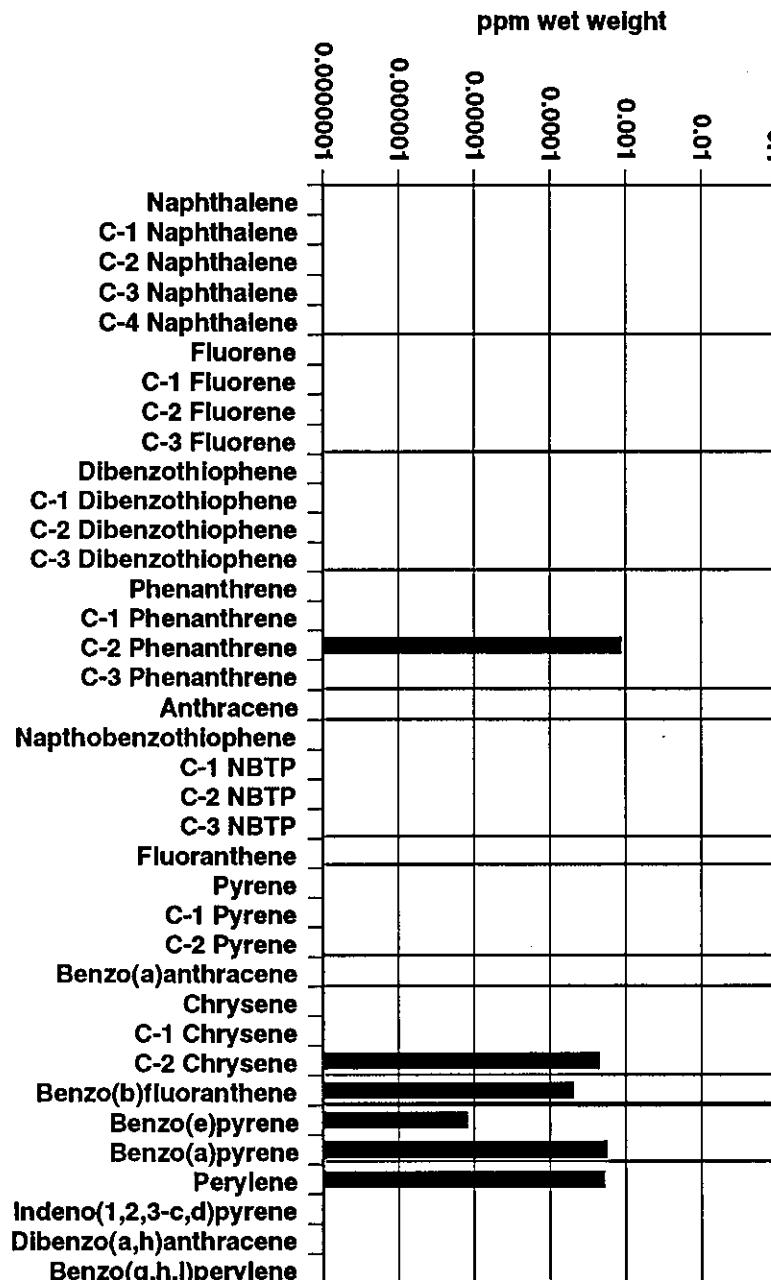
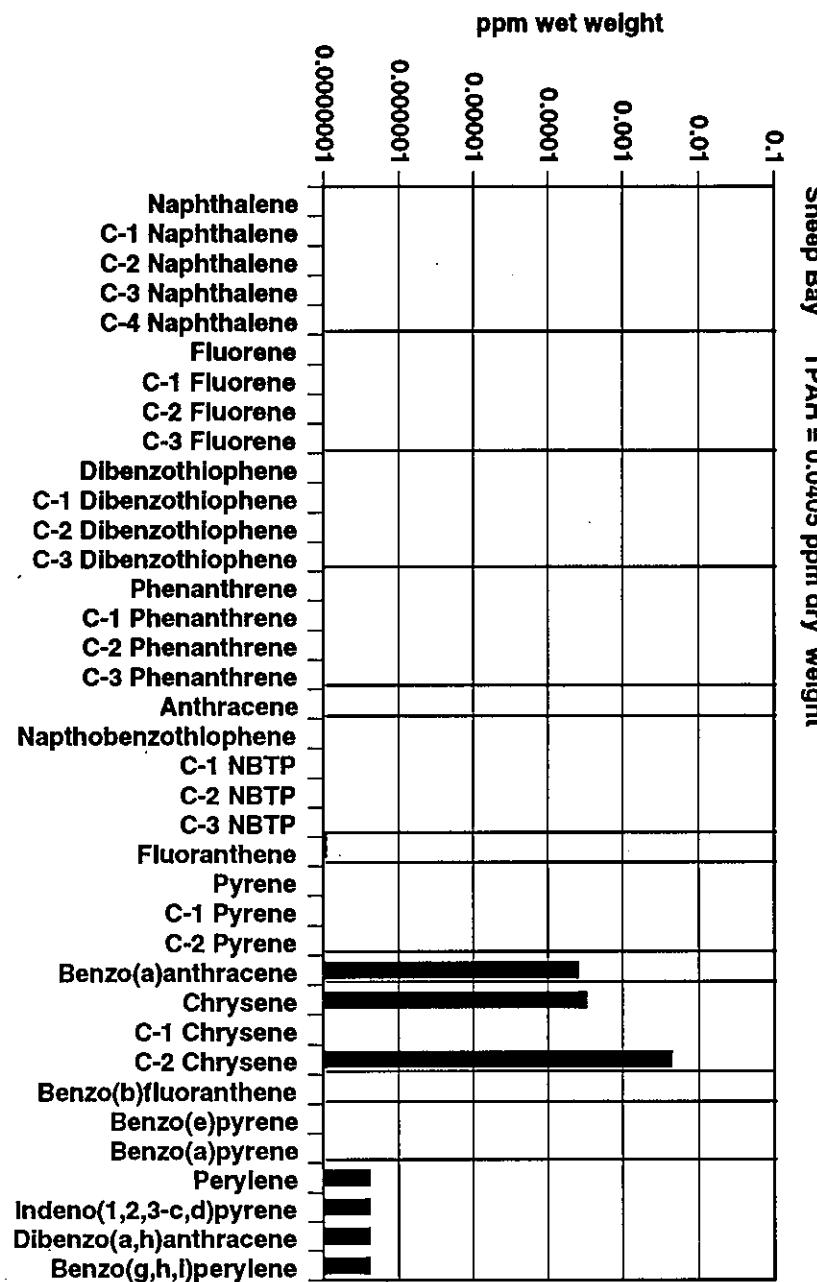


Figure B-4 Scaled display for average concentrations of PAH compounds in *Protothaca staminea* tissue at Category 1 lower mixed-soft sites during 1992.

Figure B-4 (continued)



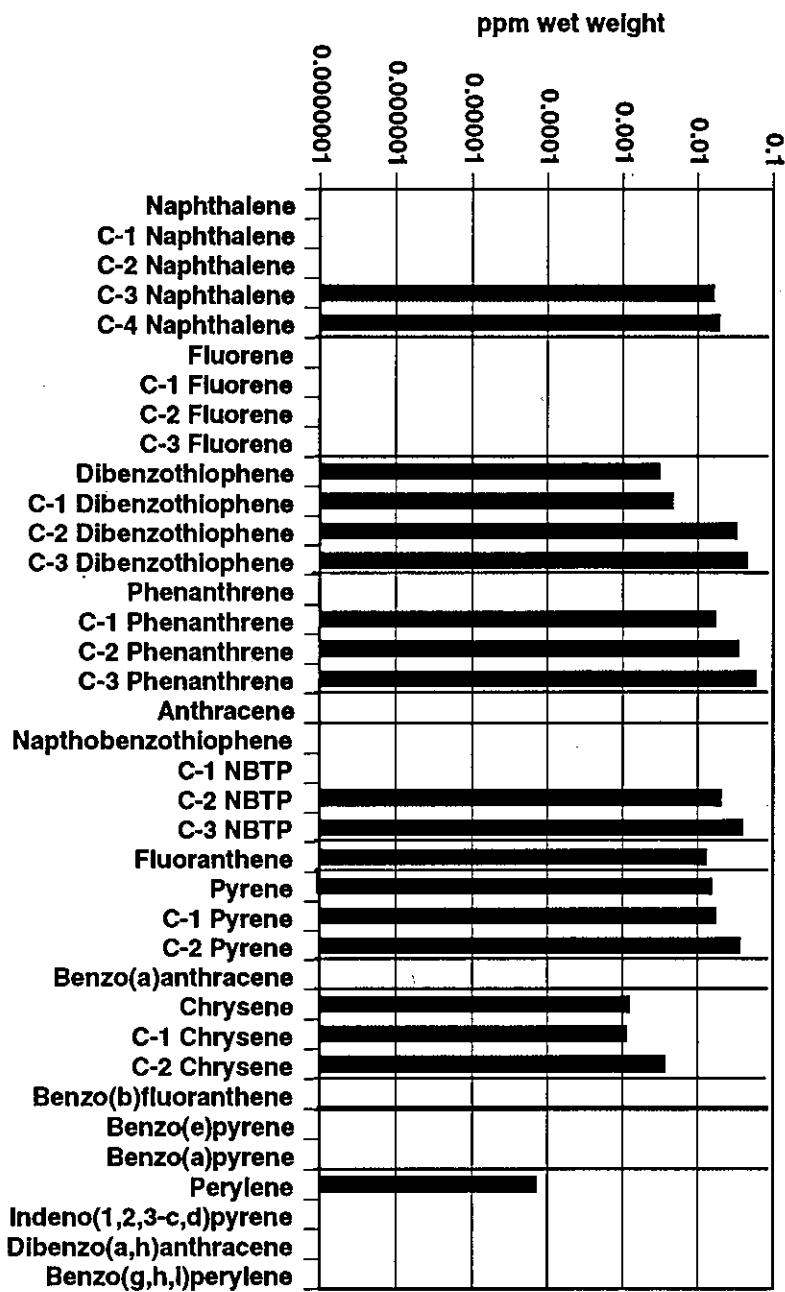
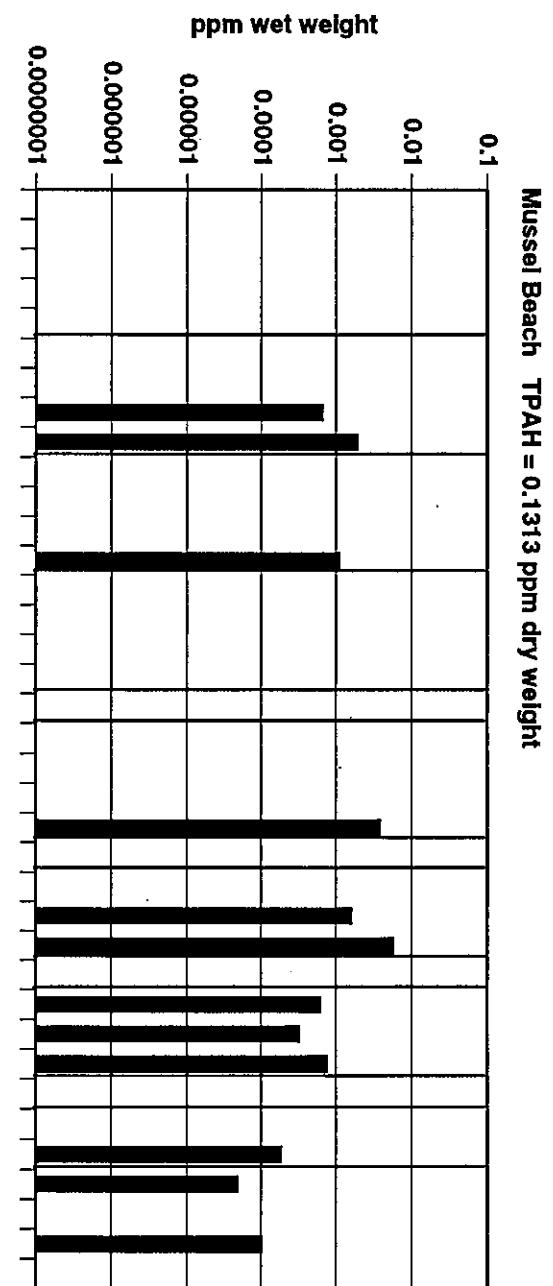


Figure B-5 Scaled display for average concentrations of PAH compounds in *Protobrachia staminea* tissue at Category 2 lower mixed-soft sites during 1992.

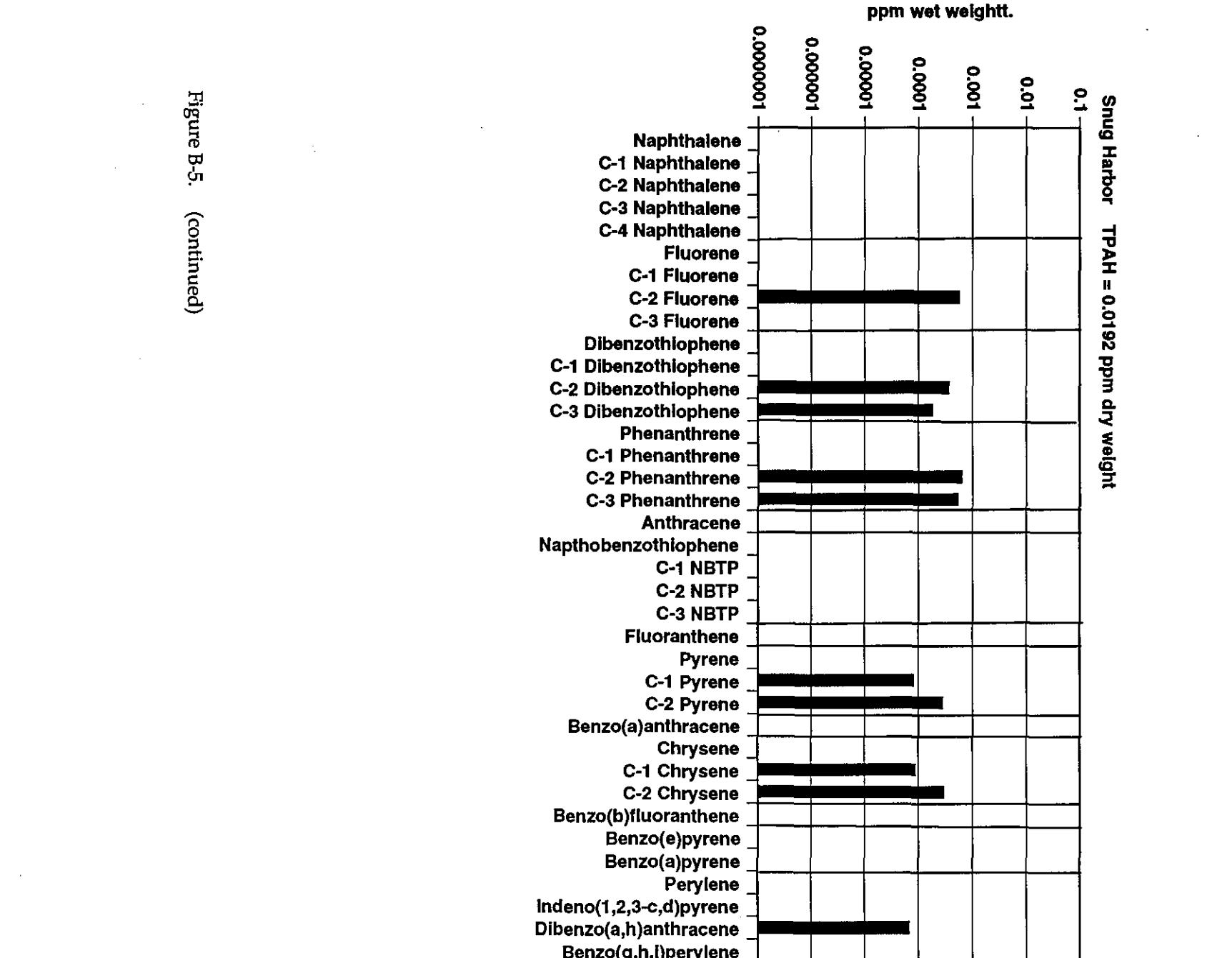
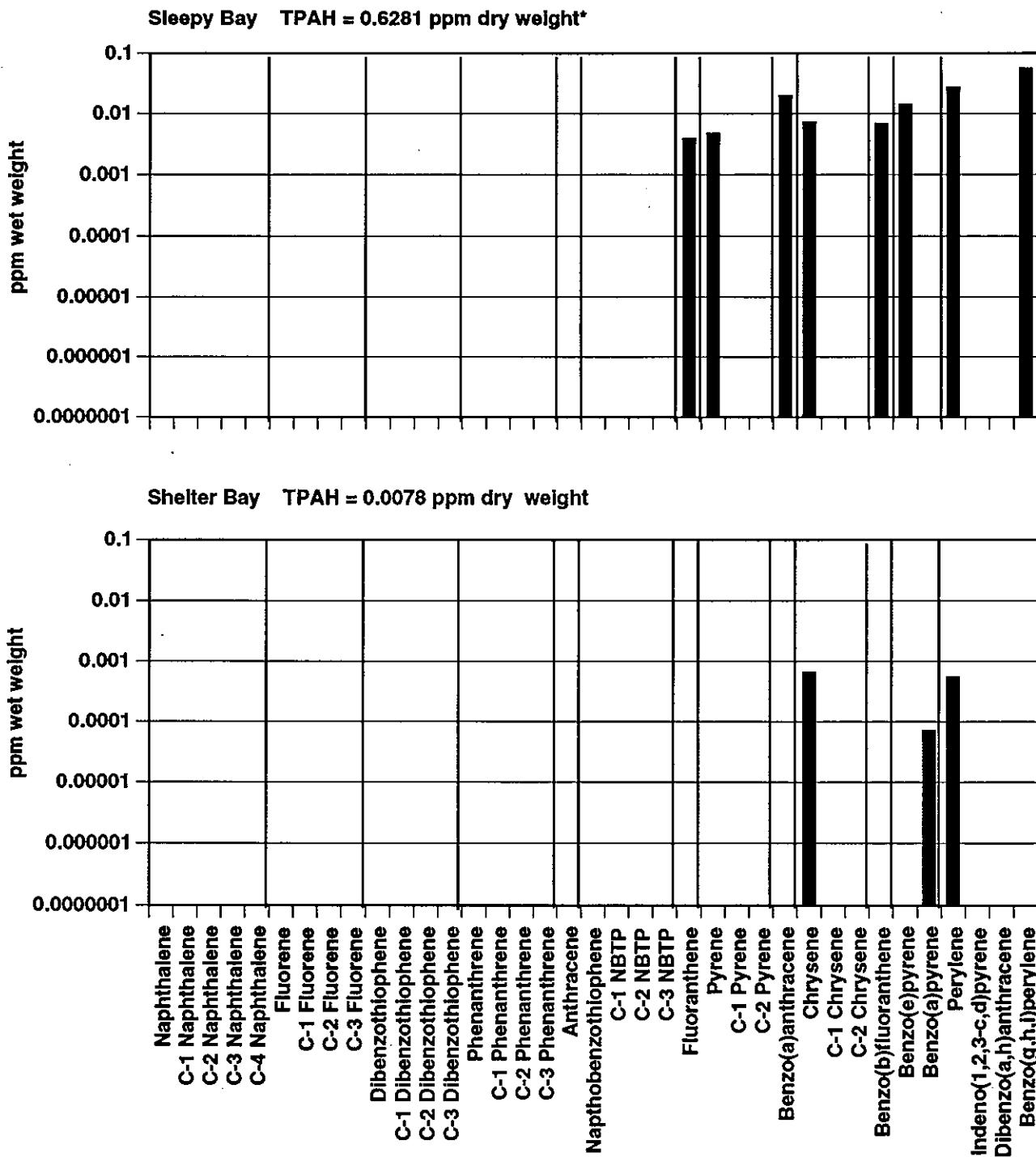


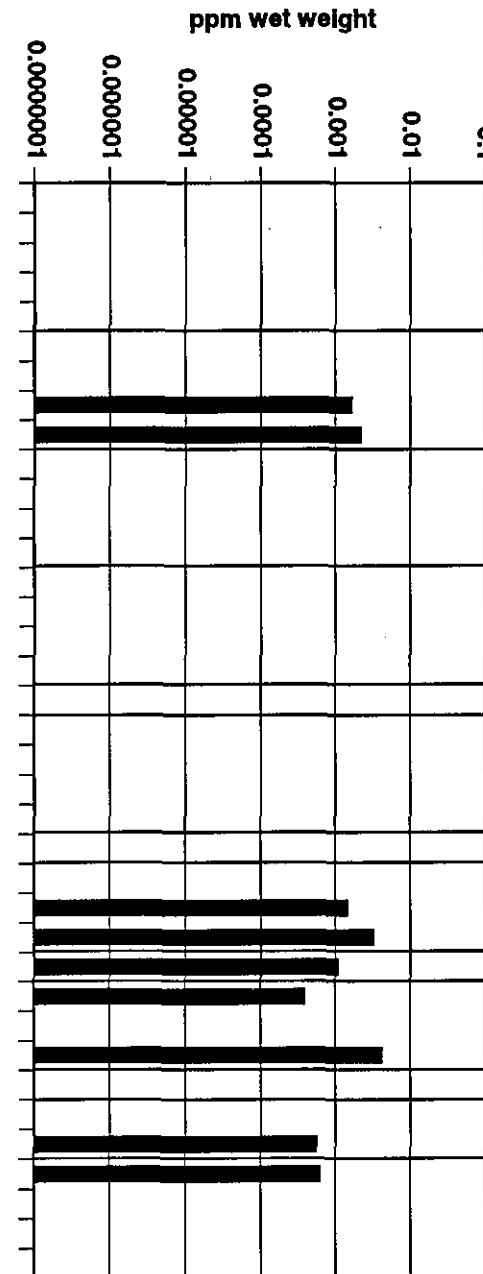
Figure B-5. (continued)



\* based on mean percent water of ten clam samples

Figure B-6. Scaled display for average concentrations of PAH compounds in *Protothaca staminea* tissue at Category 3 lower mixed-soft sites during 1992.

North Erlington West   TPAH = 0.1044 ppm dry weight



North Erlington East   TPAH = 0.1890 ppm dry weight

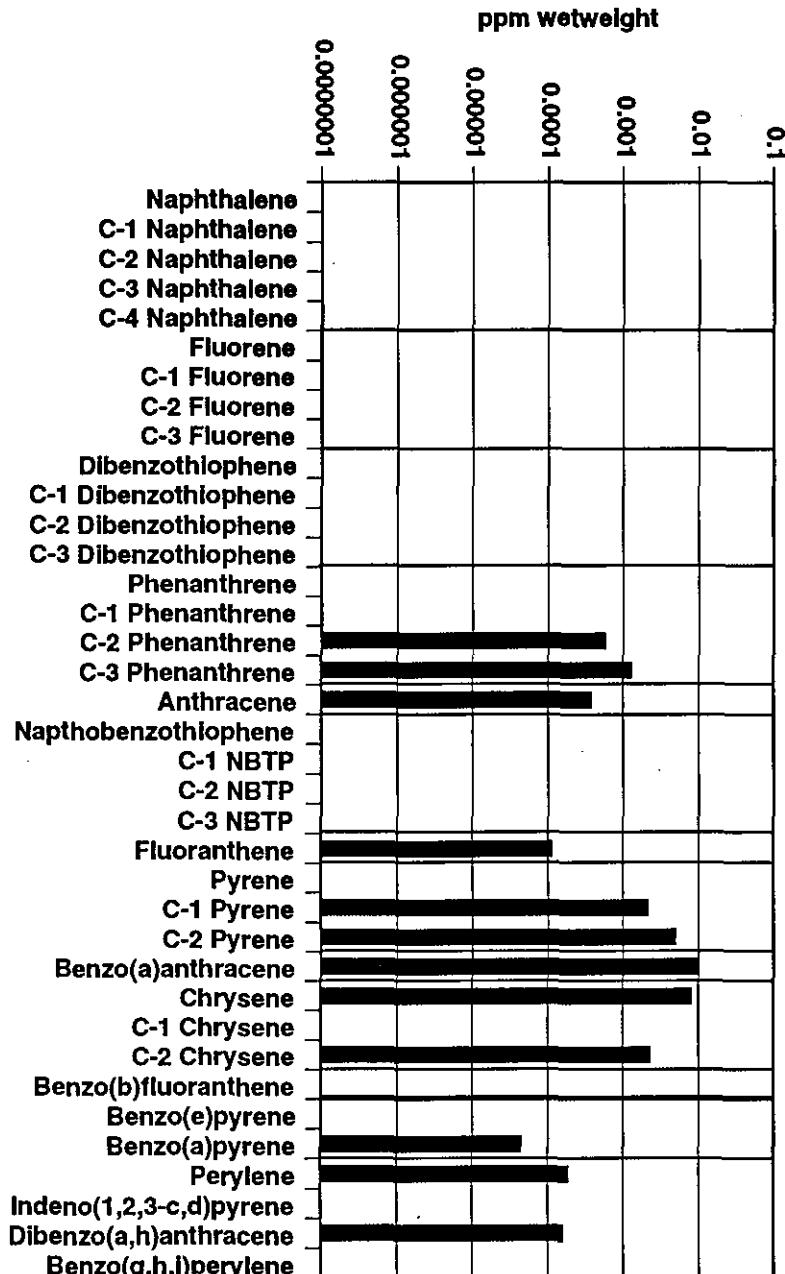


Figure B-6. (continued)

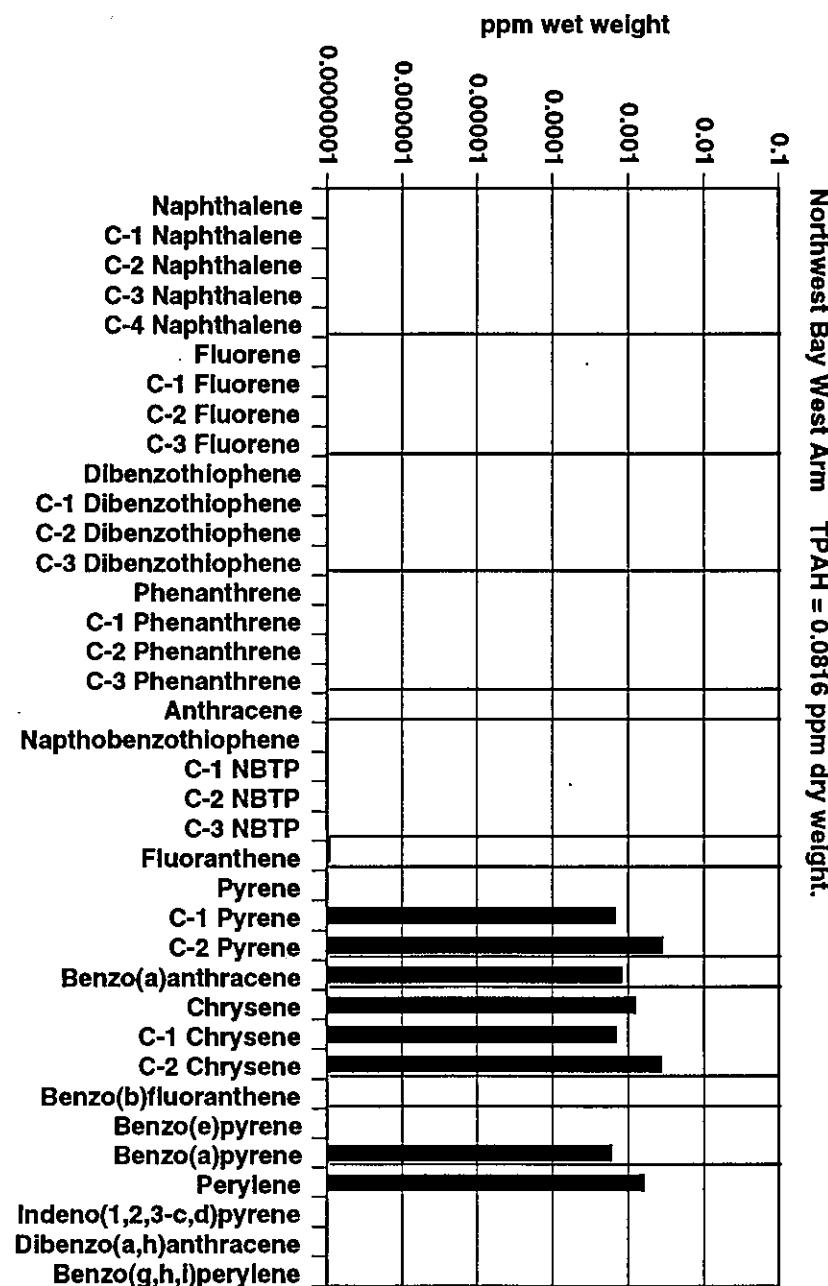
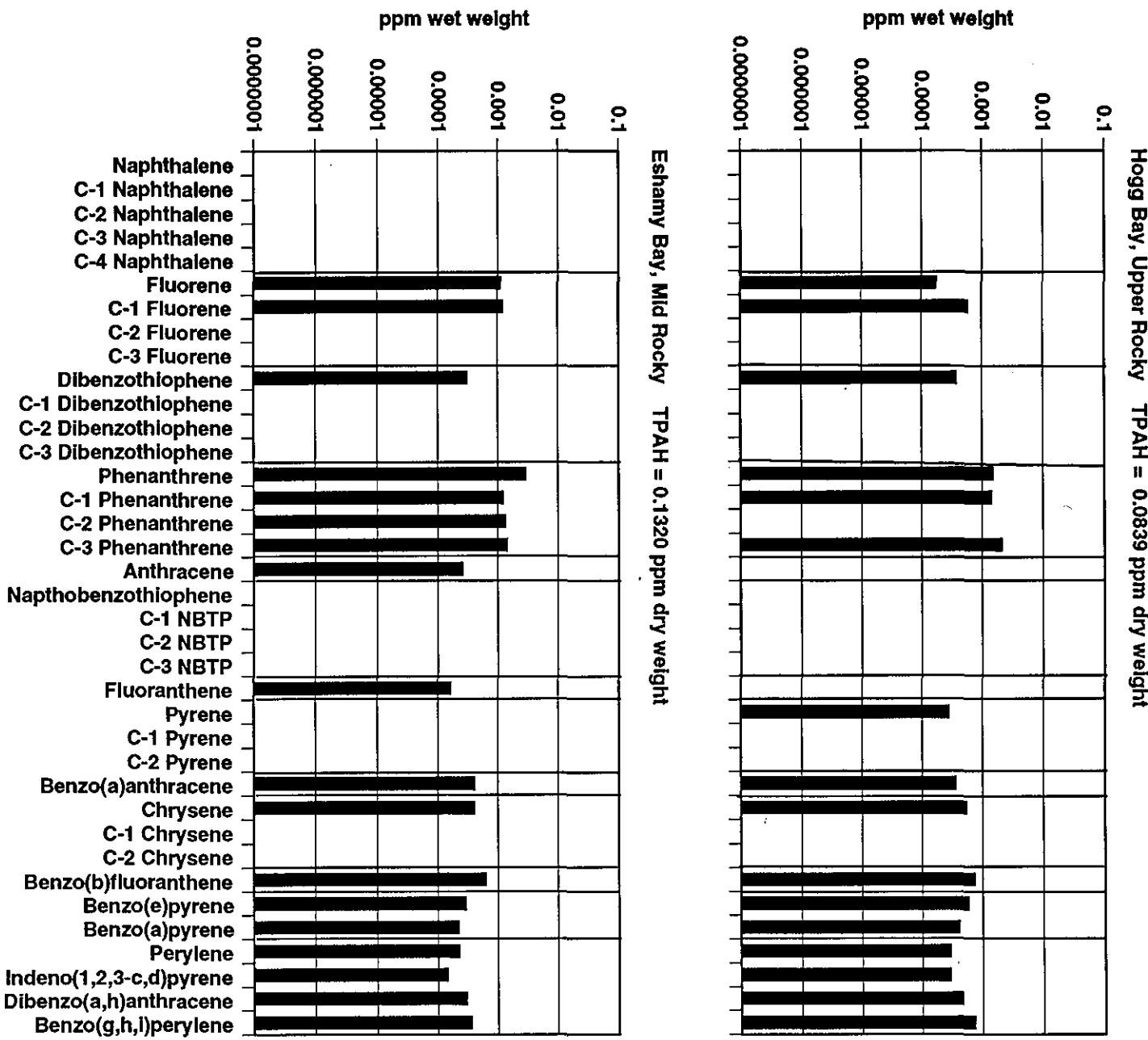


Figure B-6. (continued)

Figure B-7. Scaled display for average concentrations of PAH compounds in *Mytilis* tissue at Category 1 sites during 1992.



**Sheep Bay, Mid Soft TPAH = 0.3187 ppm dry weight**

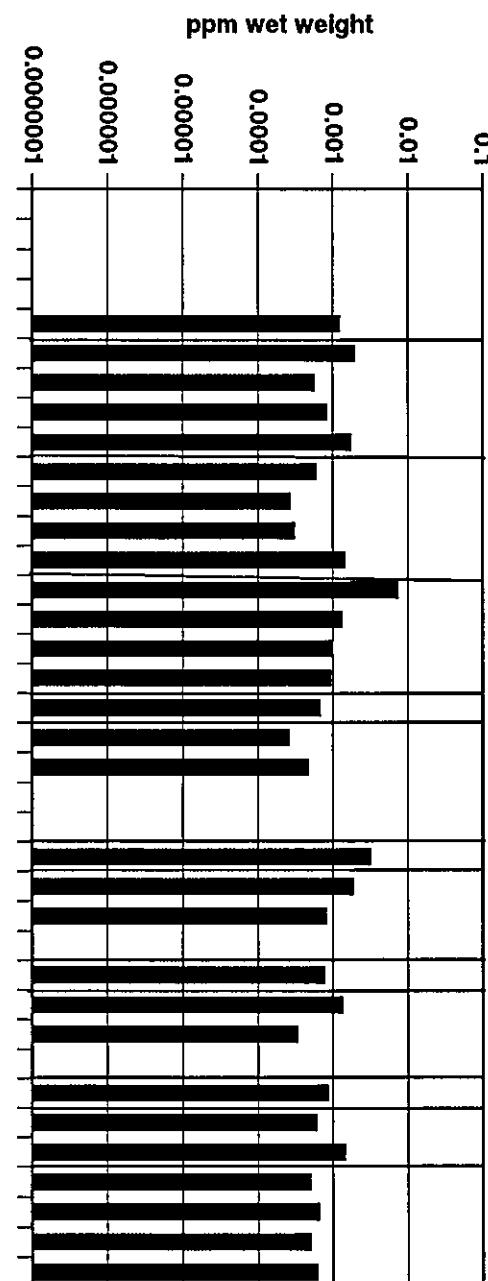


Figure B-7. (continued)

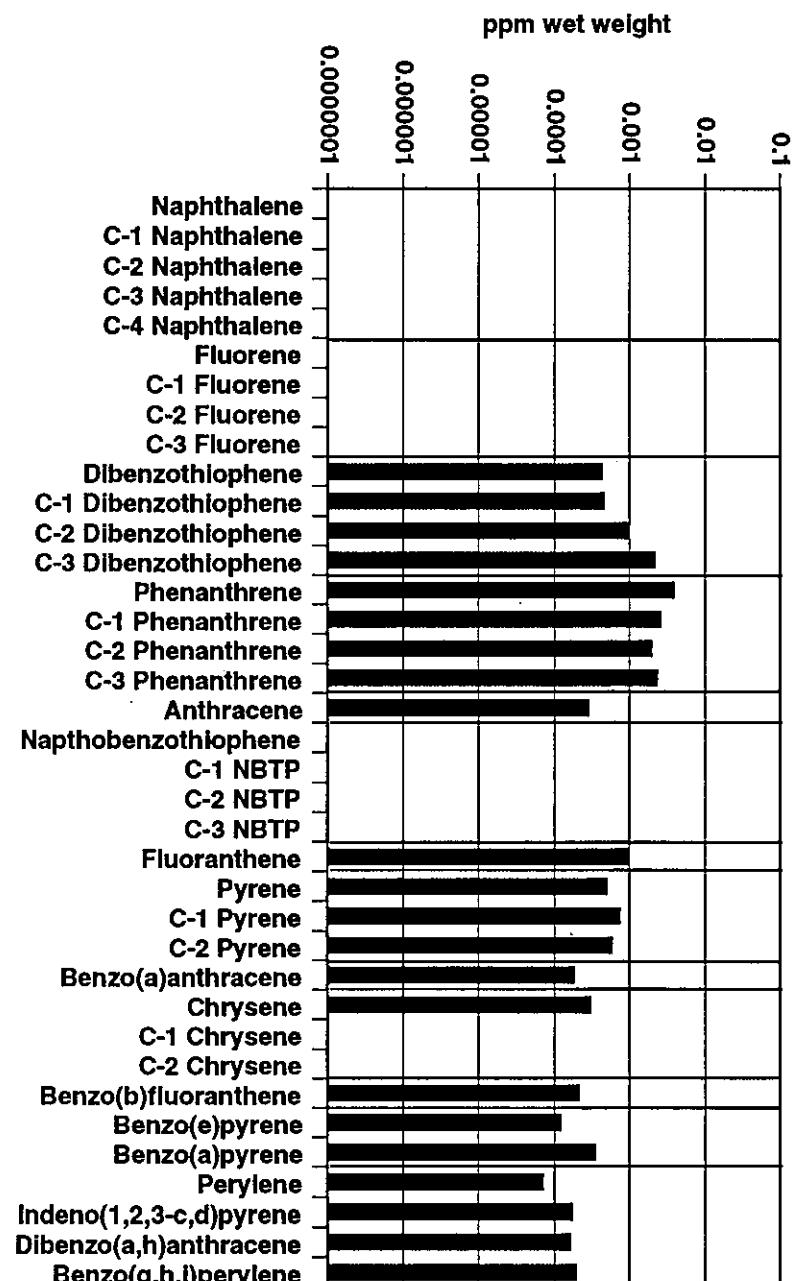
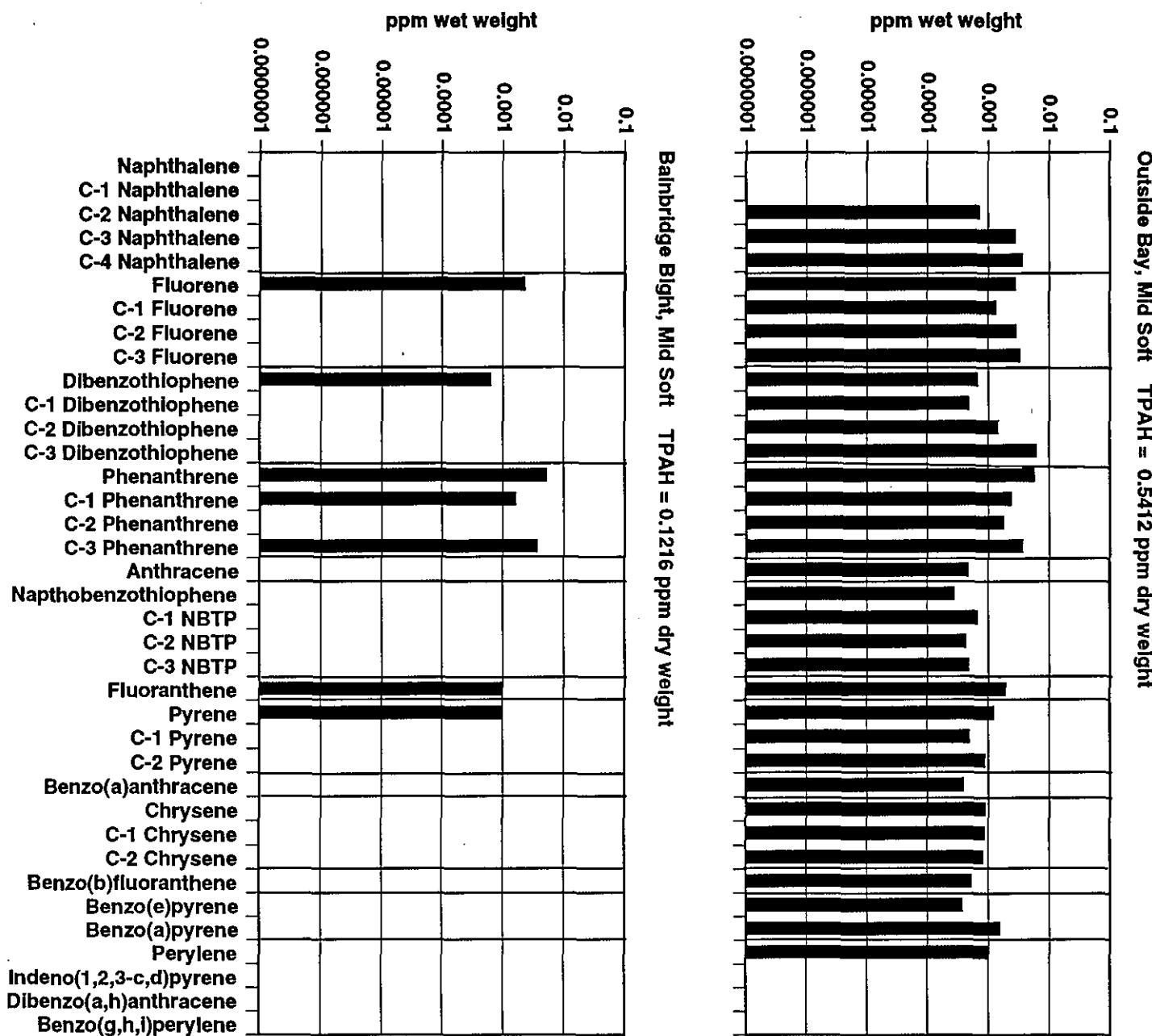


Figure B-7. (continued)



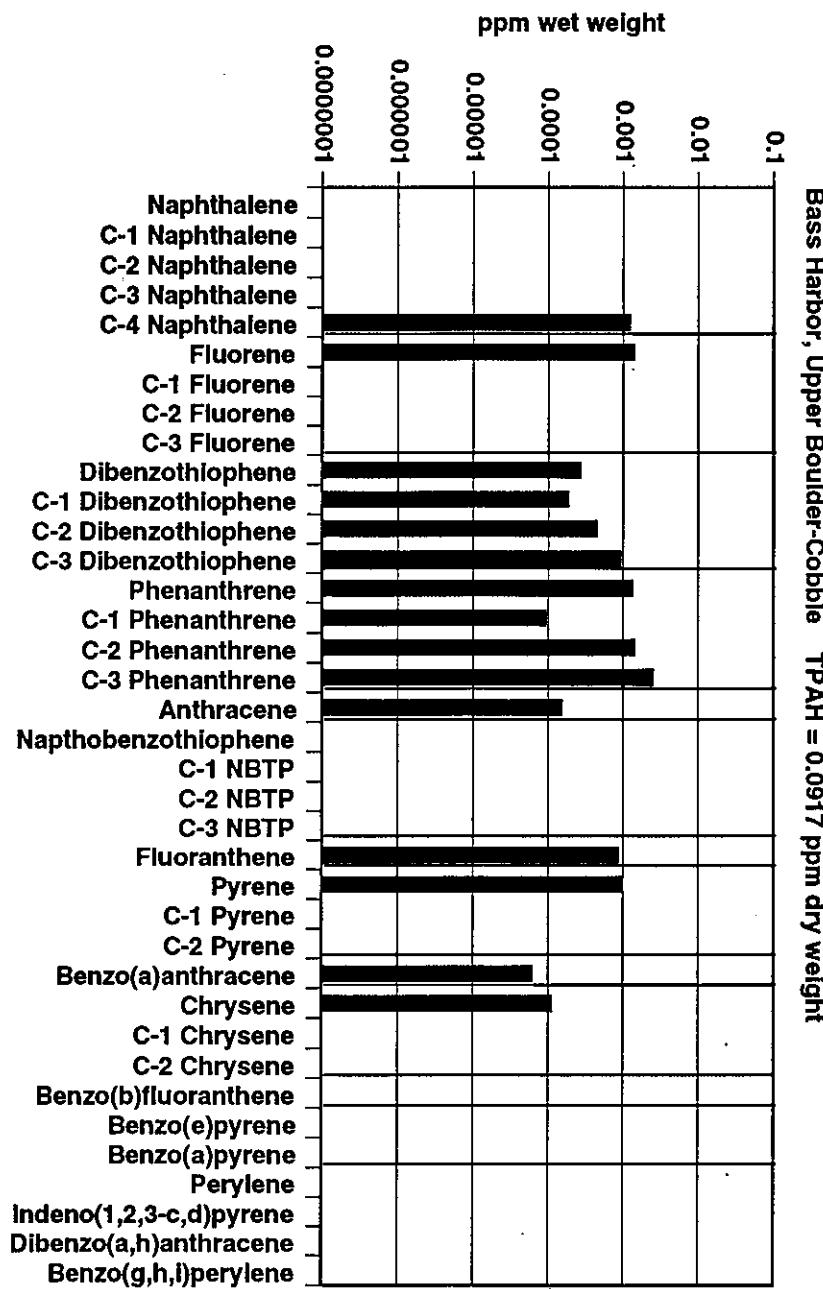


Figure B-7. (continued)



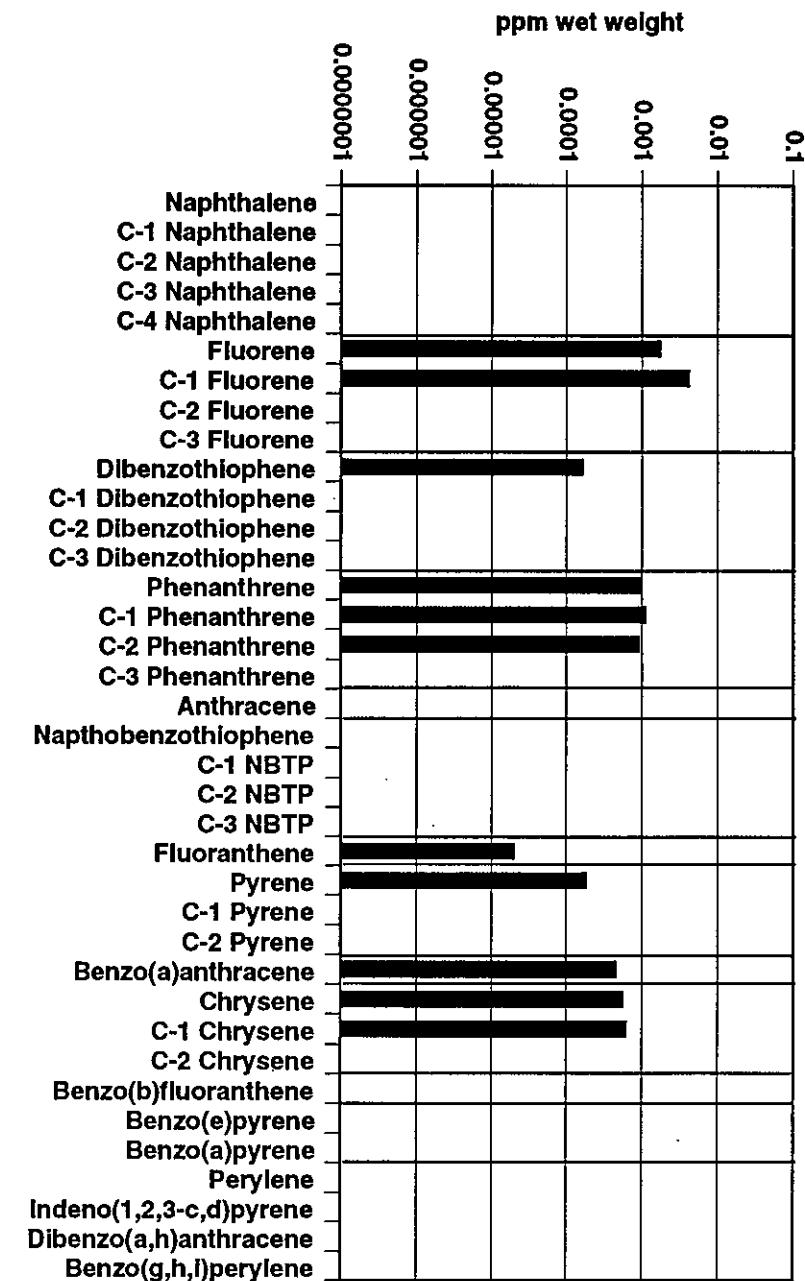
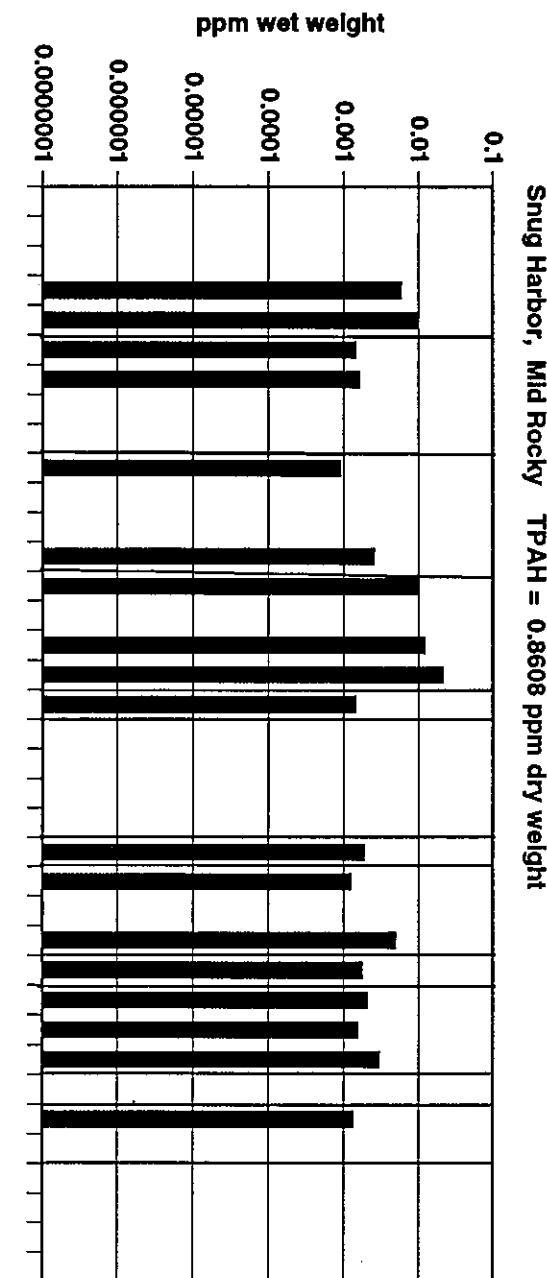
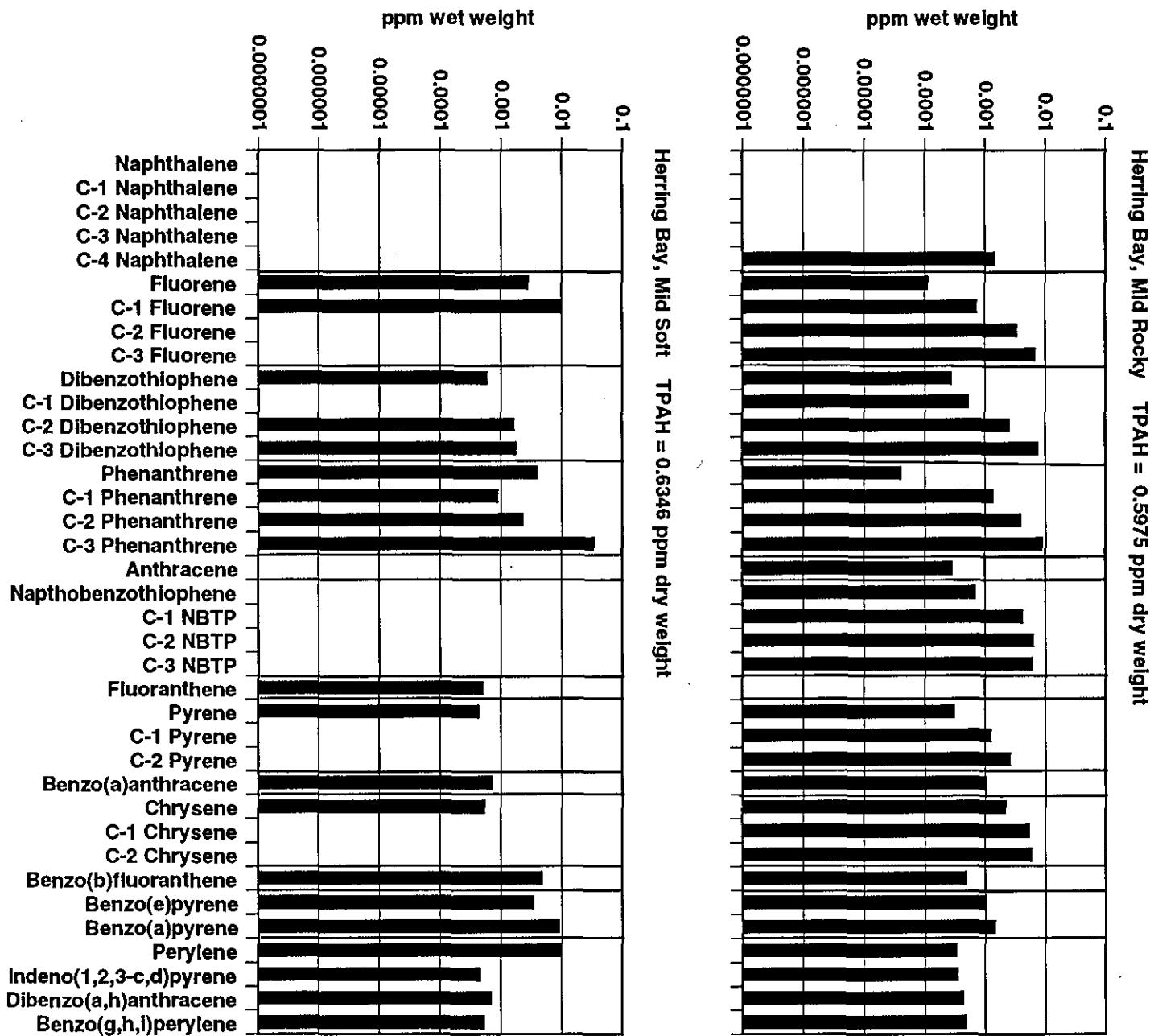
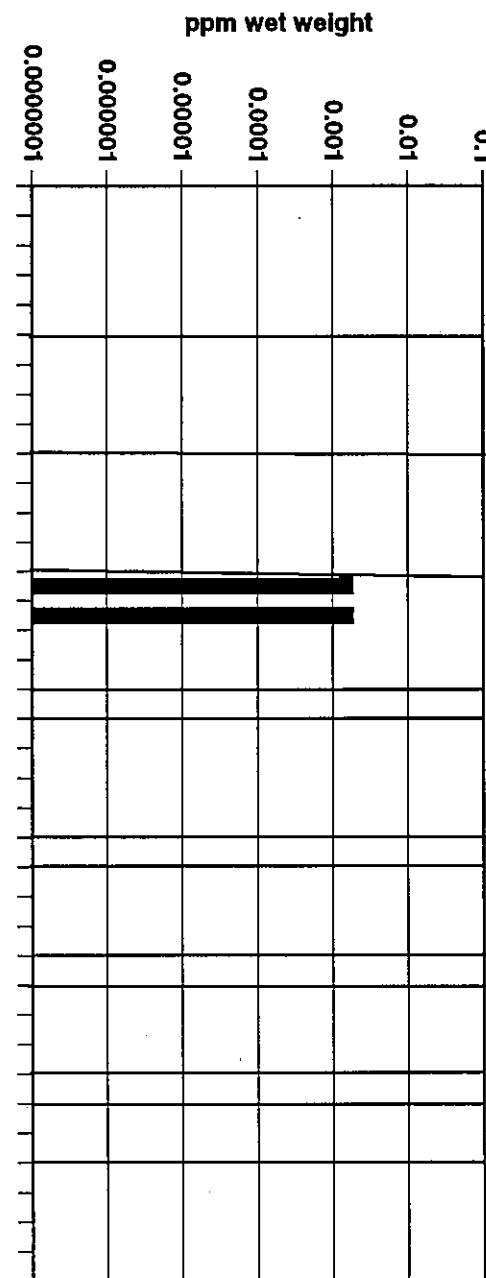


Figure B-8. Scaled display for average concentrations of PAH compounds in *Mytilis* tissue at Category 2 sites during 1992.

Figure B-8. (continued)



Snug Harbor, Mid Soft TPAH = 0.0380 ppm dry weight



Mussel Beach, Mid Soft TPAH = 0.3908 ppm dry weight

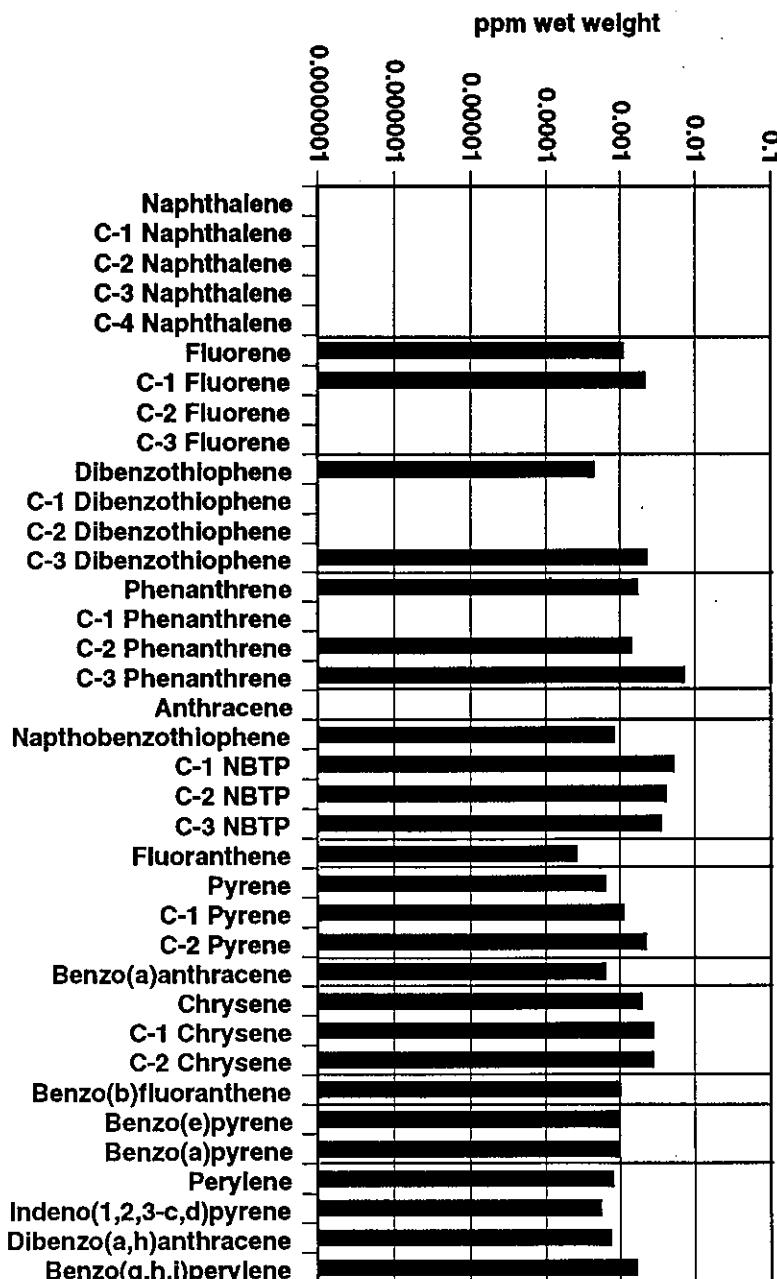


Figure B-8. (continued)

Crafton Island, Mild Soft TPAH = 0.3051 ppm dry weight

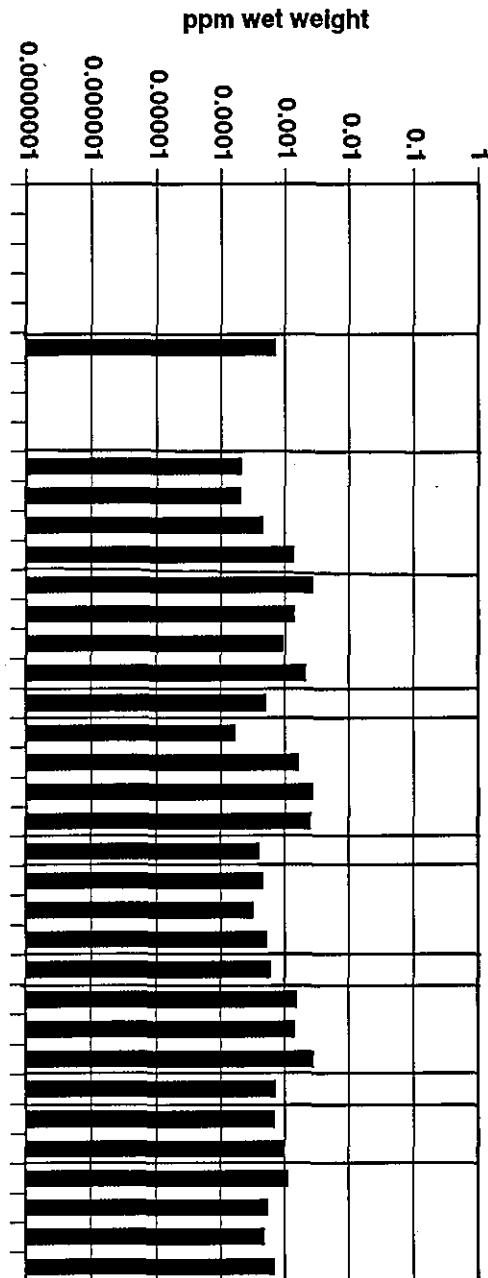


Figure B-8. (continued)

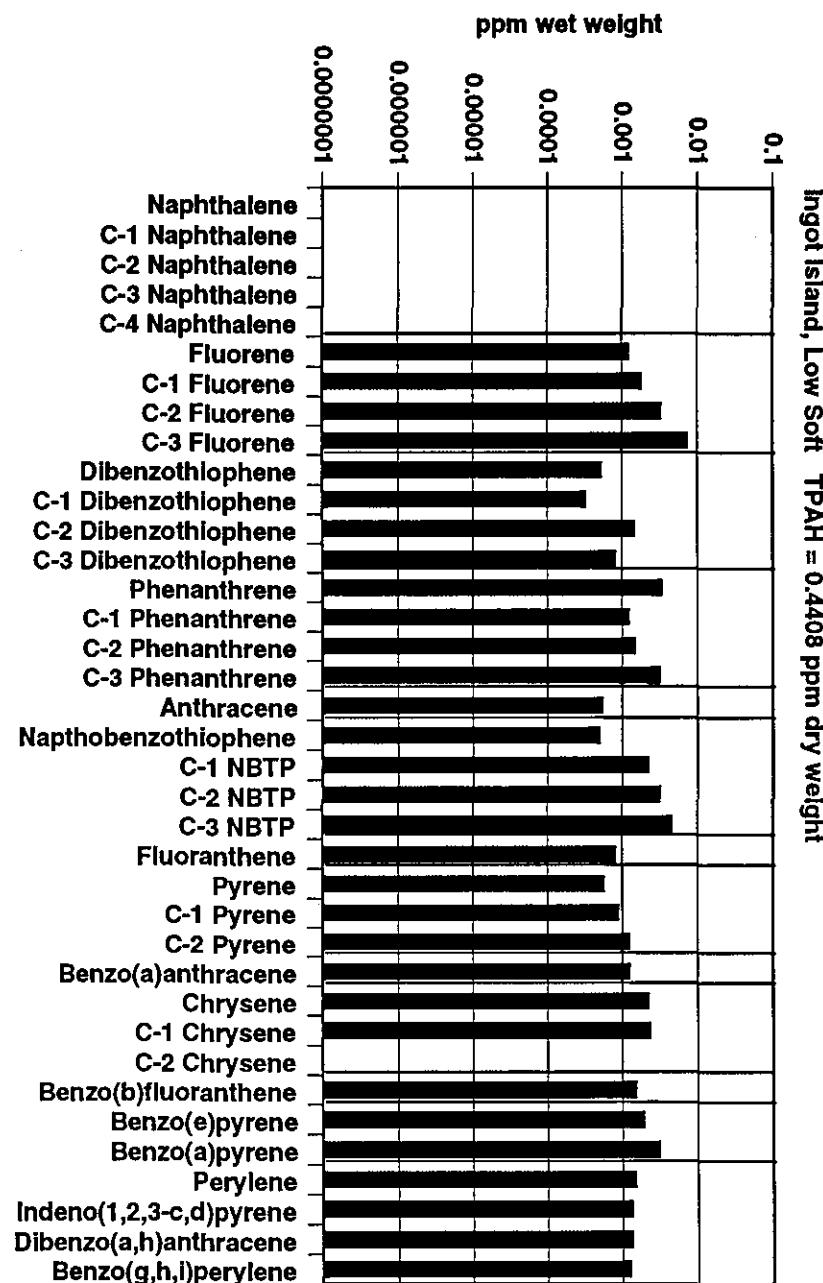
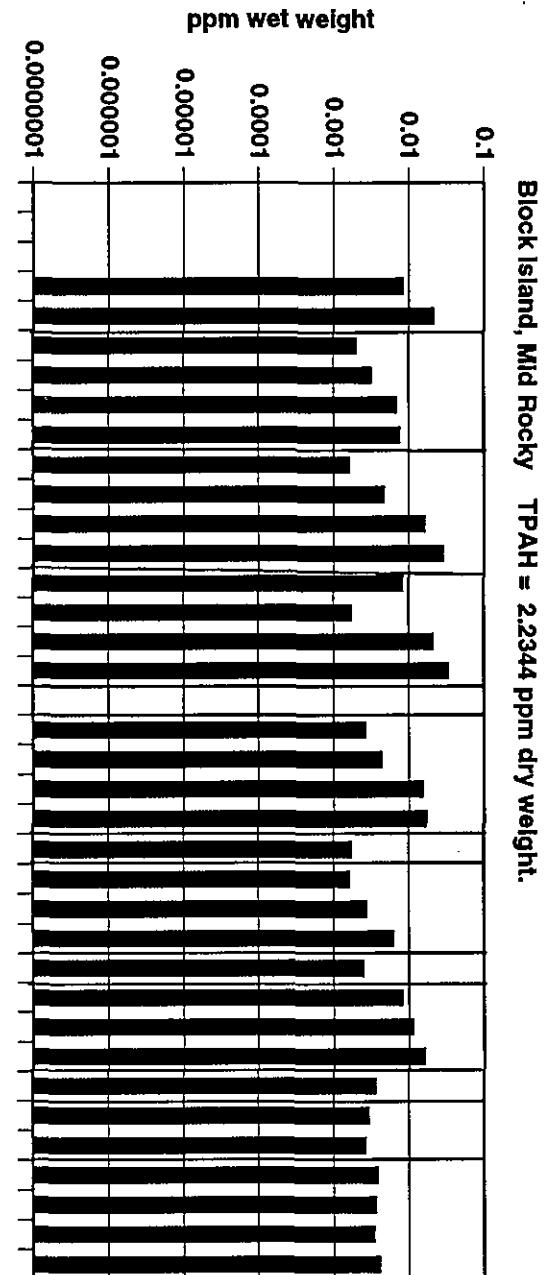


Figure B-8. (continued)



Northwest Bay Islet, Mid Rocky   TPAH = 1.1683 ppm dry weight.

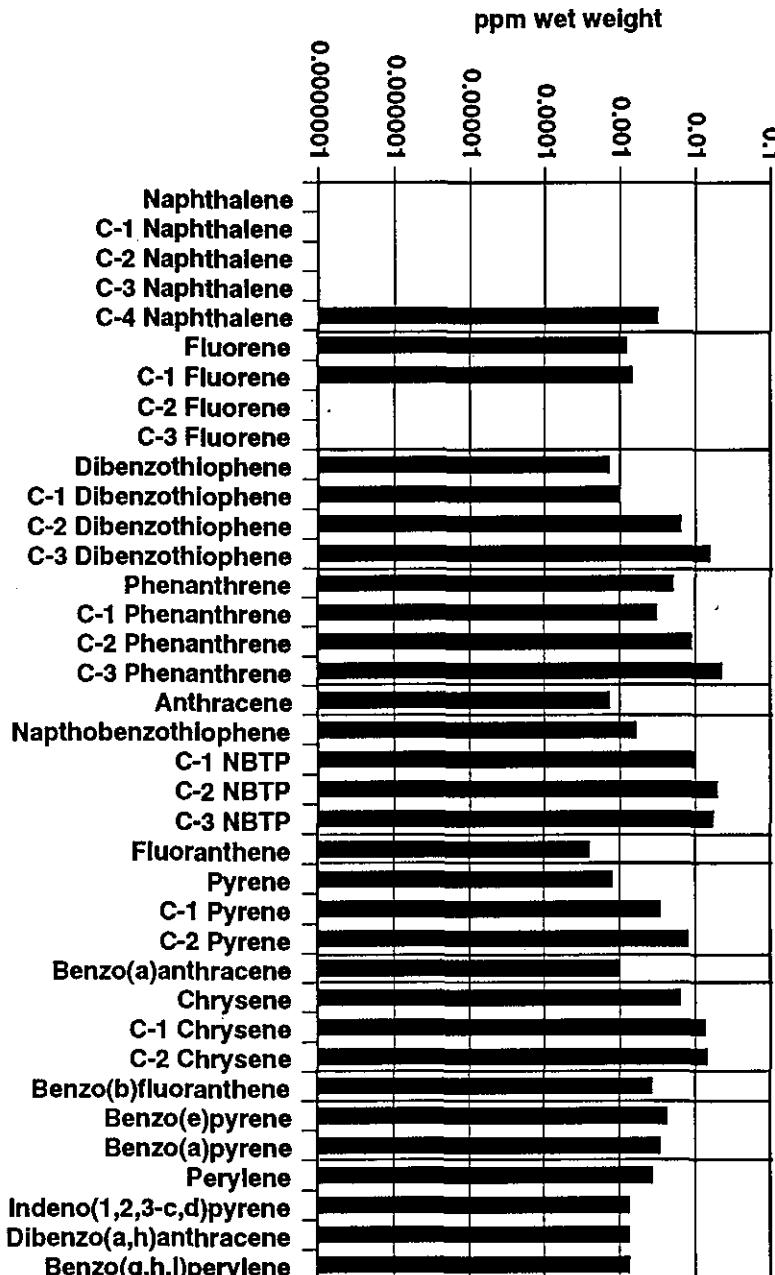
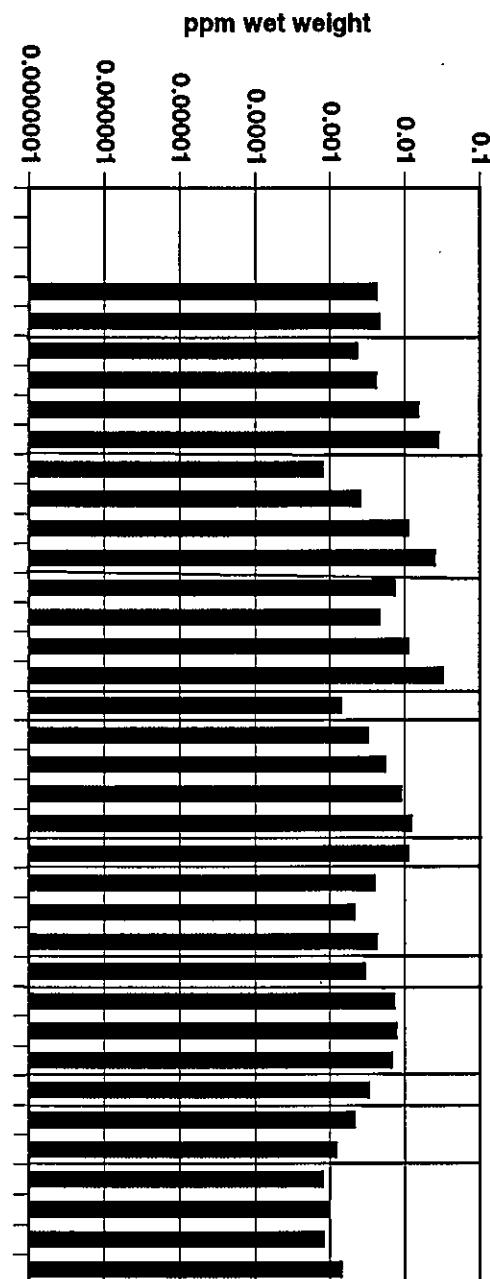


Figure B-9. Scaled display for average concentrations of PAH compounds in *Mytilis* tissue at Category 3 sites during 1992.

Ingot Island, Mid Rocky TPAH = 1.8364 ppm dry weight.



North Elrington West, Mid Rocky TPAH = 0.8838 ppm dry weight.

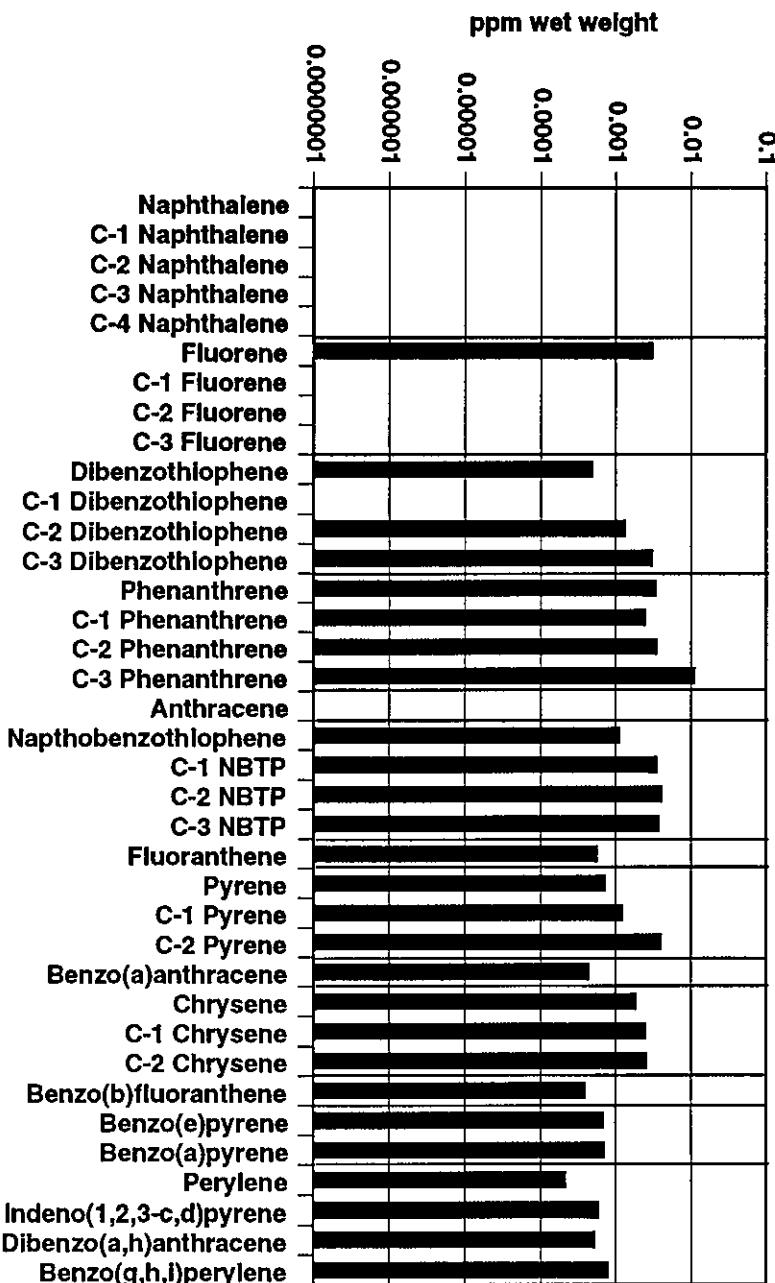
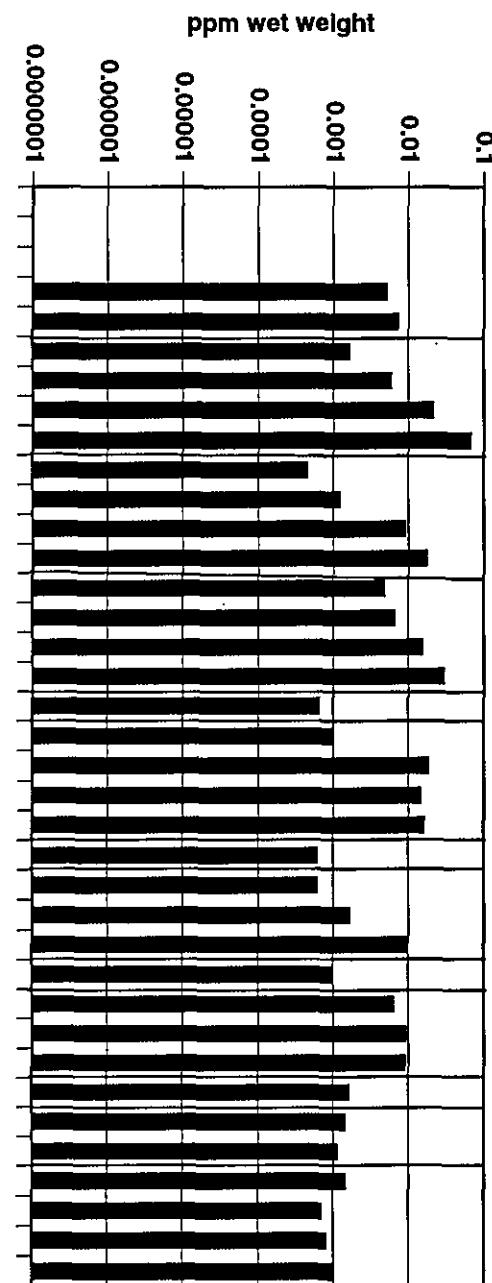


Figure B-9. (continued)

North Erlington East, Upper Soft      TPAH = 2.2861 ppm dry weight



Block Island, Low Soft      TPAH = 0.5683 ppm dry weight

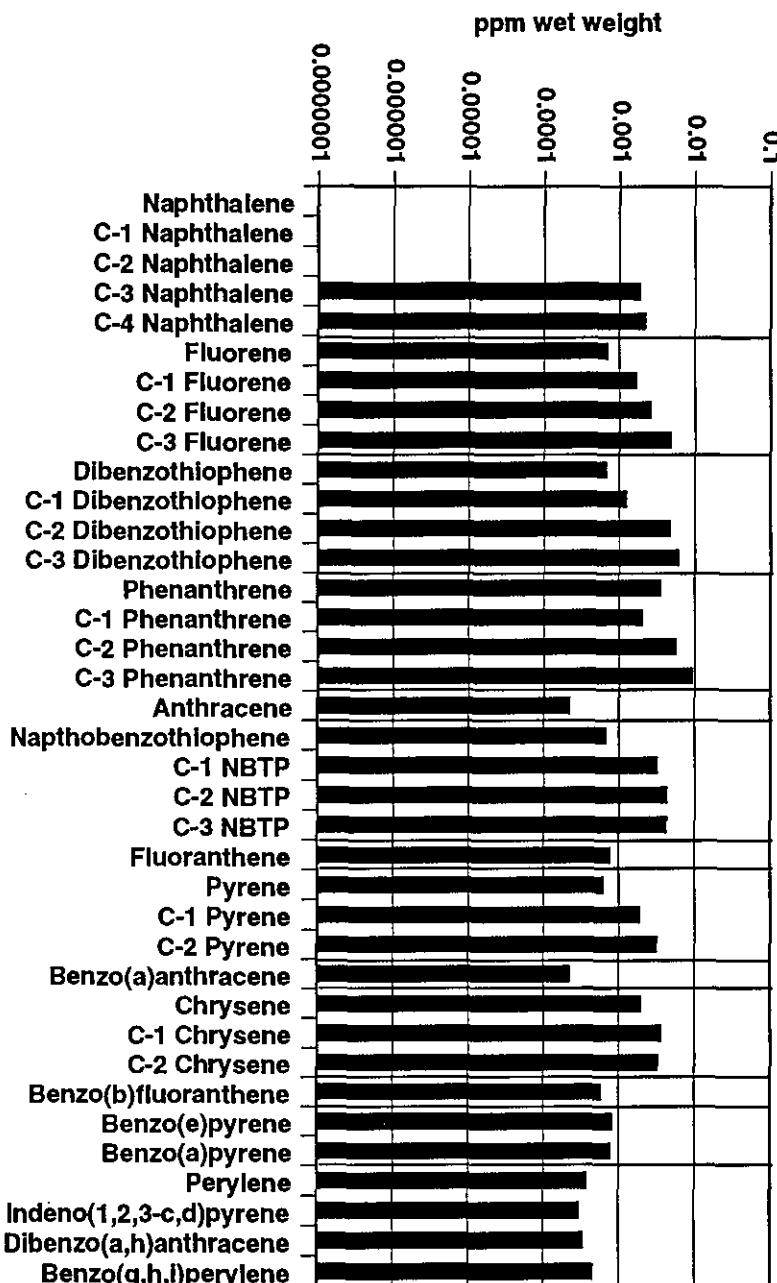
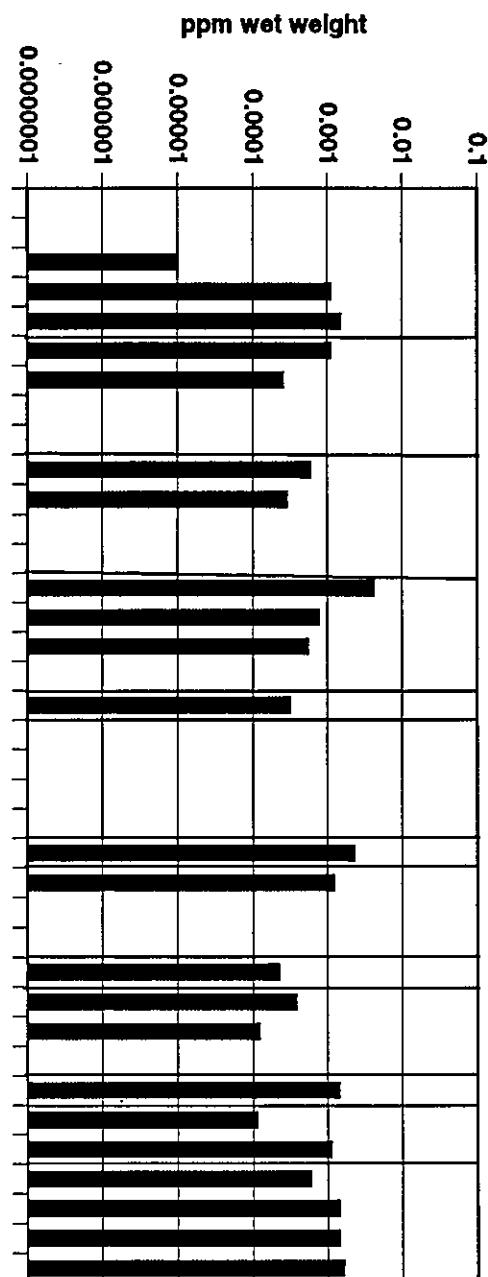


Figure B-9. (continued)

Sleepy Bay, Mid Soft TPAH = 0.1421 ppm dry weight



Northwest Bay West Arm, Mid Soft TPAH = 0.3705 ppm dry weight

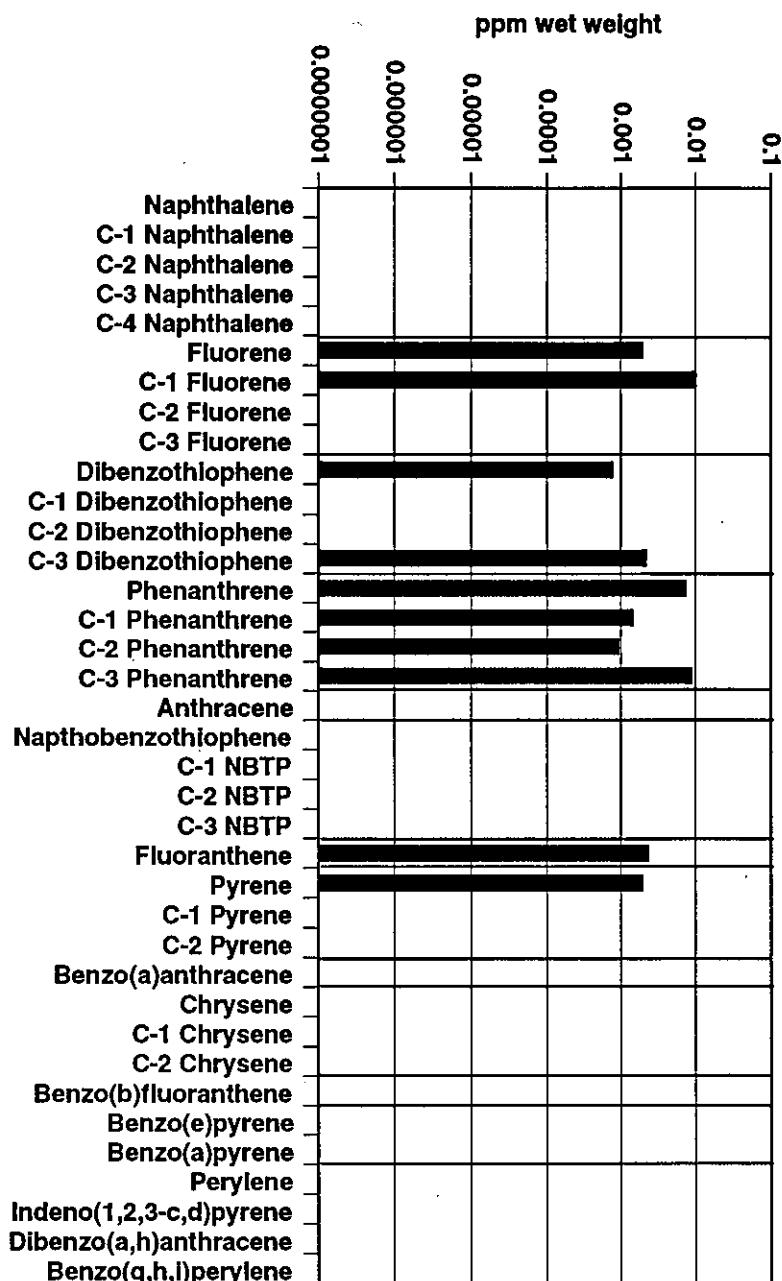
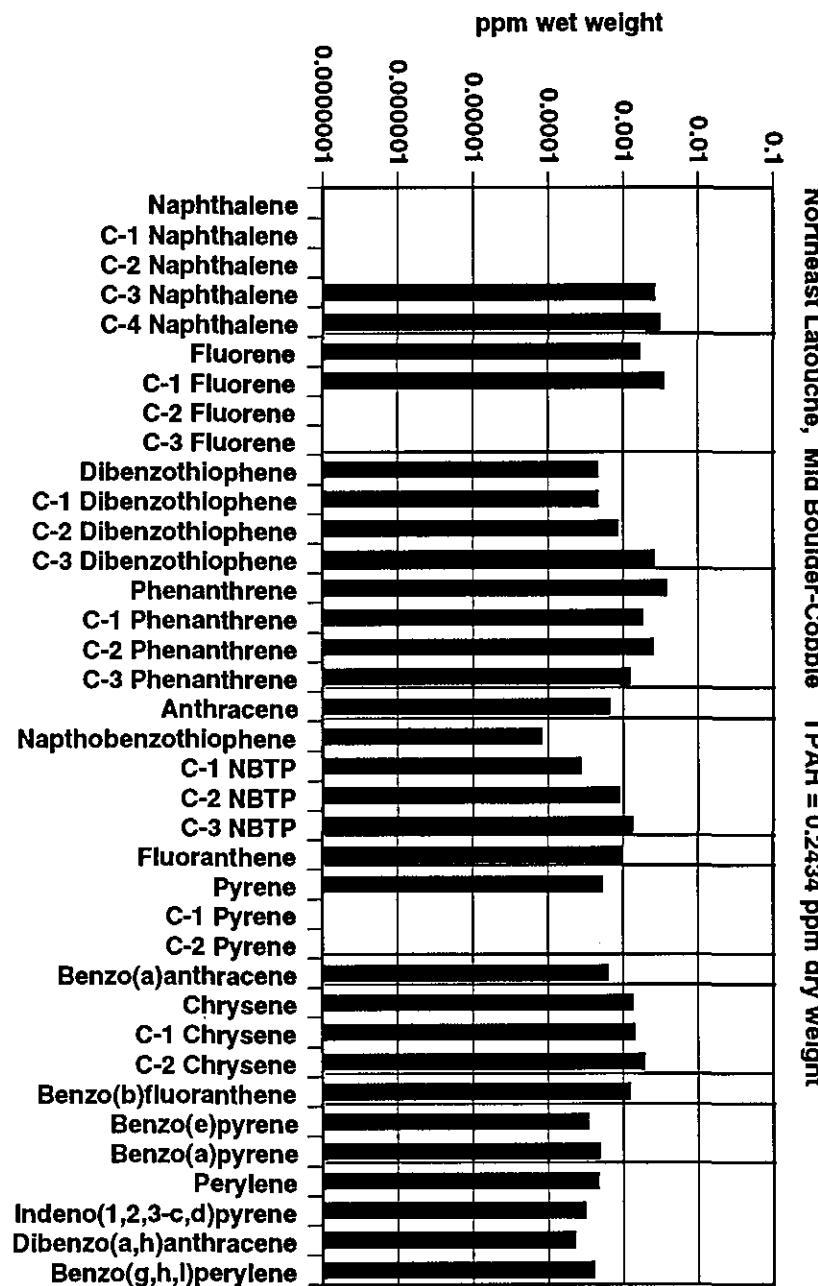
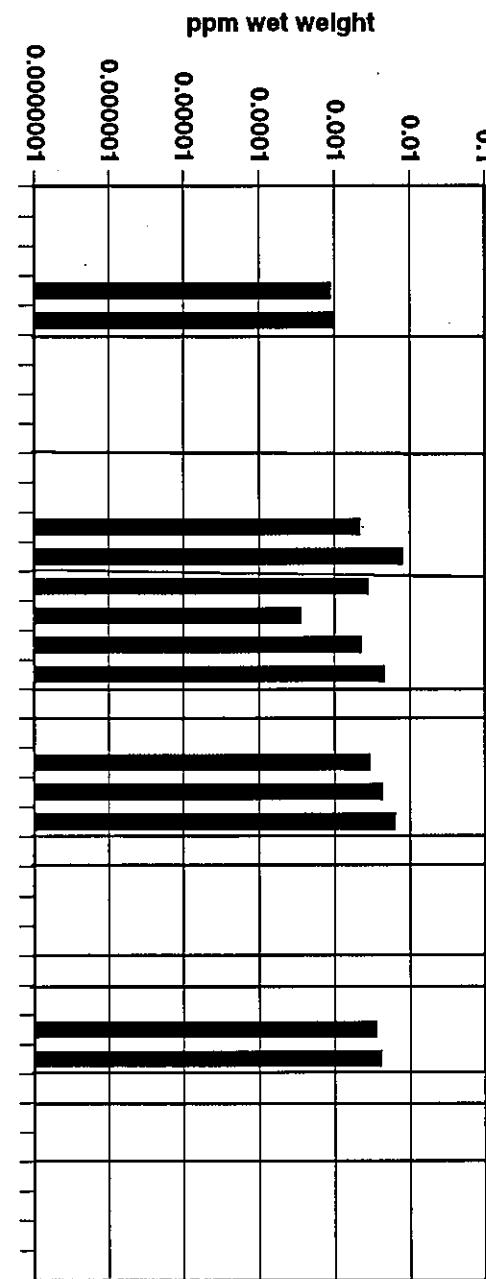


Figure B-9. (continued)

Figure B-9. (continued)



Herring Bay, Omni Test Site, Mid Boulder-Cobble    TPAH = 0.3982 ppm dry weight



Point Helen, Mid Boulder-Cobble    TPAH = 0.6340 ppm dry weight

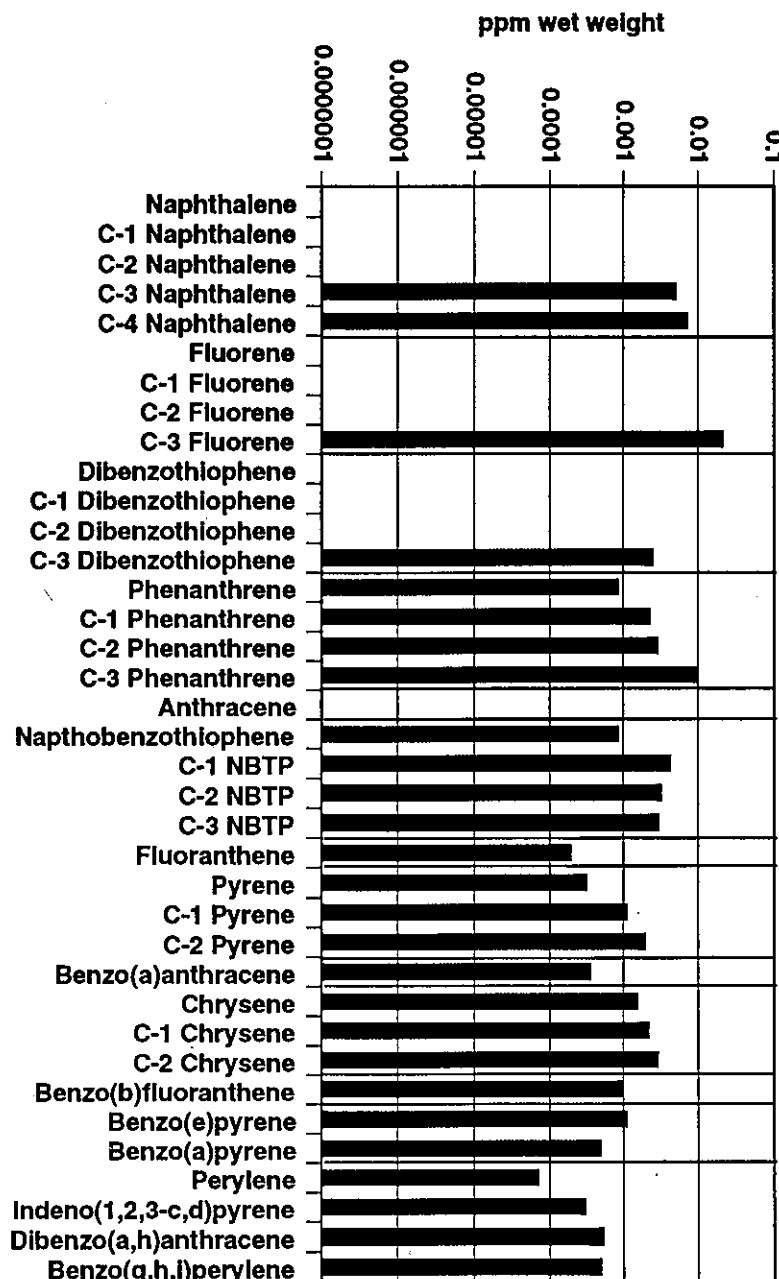


Figure B-9. (continued)

Shelter Bay, Mid Soft TPAH = 0.1918 ppm dry weight

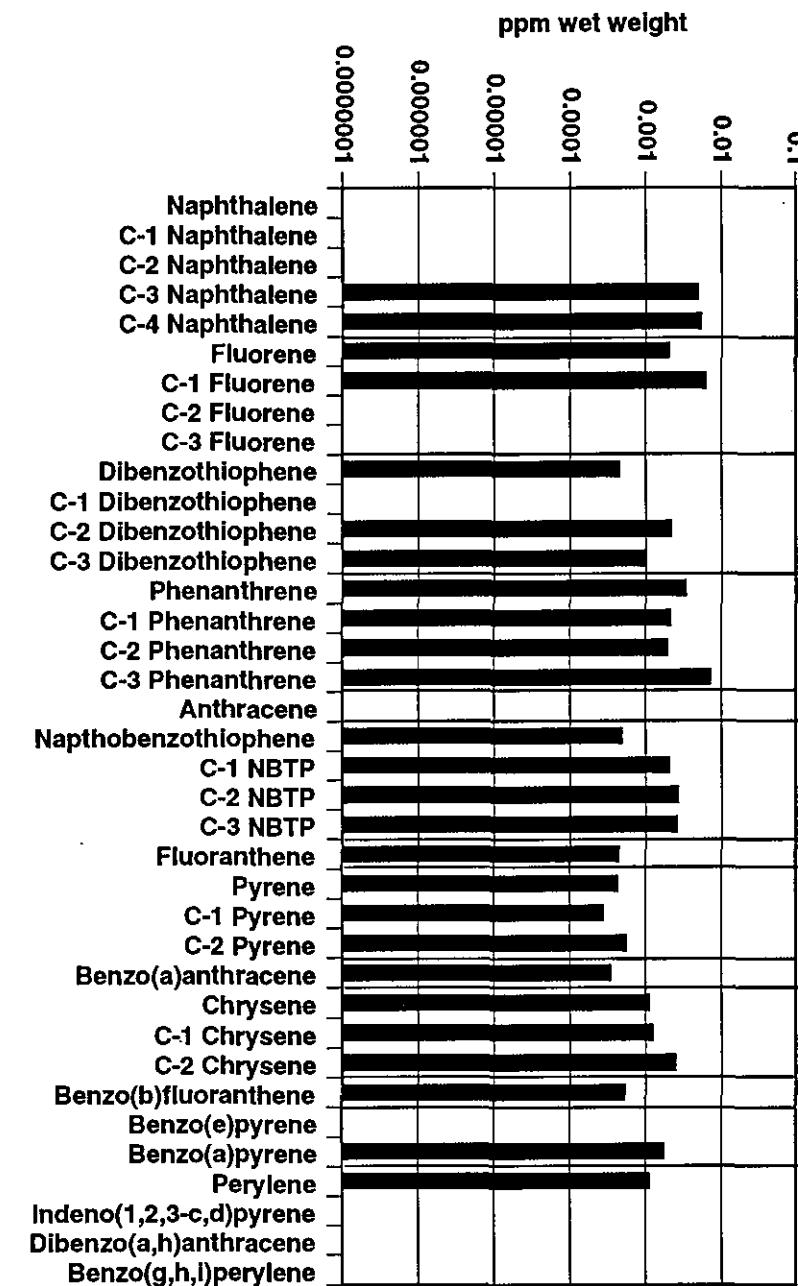


Figure B-9 (continued)

## **APPENDIX C**

Table C-1-1 Rocky upper intertidal epibiota, July 1992.

Taxon	Bass Harbor			Block Island			Elrington East			Elrington Islet E			Elrington Islet N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Blidingia spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Blue-green algae, spheroid	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.27	5
Blue-green algae, crust	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	2.90	2.46	5
Bryophyta, unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Chaetomorpha spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Elatista fucicola	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.40	0.89	5
Encrusting red algae	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Endocladia muricata	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Endozoic green algae	0.10	0.22	5	0.00	0.00	5	0.30	0.27	5	0.00	0.00	5	0.90	1.19	5
Enteromorpha intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Fucus gardneri	0.10	0.22	5	4.10	6.21	5	1.90	3.42	5	1.40	2.19	5	30.00	39.17	5
Fucus gardneri (sporelings)	0.20	0.45	5	0.20	0.27	5	0.50	0.00	5	0.50	0.00	5	0.60	0.42	5
Gloiopeltis furcata	2.90	4.13	5	0.30	0.45	5	0.00	0.00	5	0.00	0.00	5	1.50	3.08	5
Halosaccion glandiforme	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Hildenbrandia rubra	0.00	0.00	5	2.50	2.78	5	0.70	0.27	5	1.10	0.55	5	8.50	12.68	5
Leathesia difformis	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Melanosiphon intestinalis	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Ralfsia fungiformis	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Ralfsia spp.	0.00	0.00	5	3.00	6.71	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Neorhodomela oregonia	0.20	0.45	5	0.40	0.89	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Scytosiphon lomentaria	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Soranthera ulvoidea	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Verrucaria spp.	0.00	0.00	5	7.70	10.41	5	3.20	3.95	5	0.00	0.00	5	1.30	1.20	5
Porphyra fucicola	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Cladophora sericea	0.00	0.00	5	1.60	3.58	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Calothrix spp.	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Vascular plant unknown	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Black crust (maybe Hildenbrandia)	0.00	0.00	5	0.00	0.00	5	1.20	2.17	5	0.00	0.00	5	0.10	0.22	5
Balanus glandula (%)	0.20	0.27	5	0.80	0.27	5	0.50	0.00	5	2.20	2.77	5	13.20	11.34	5
Balanus glandula (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.50	0.35	5	0.00	0.00	5
Balanus/Semibalanus spp. (% set)	0.00	0.00	5	0.00	0.00	5	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5
Chthamalus dalli (% set)	0.10	0.22	5	0.30	0.27	5	0.00	0.00	5	1.20	0.84	5	0.90	1.19	5
Chthamalus dalli (%)	4.60	4.16	5	0.30	0.27	5	0.20	0.27	5	0.10	0.22	5	5.30	5.83	5

Table C-1-1 (continued).

Taxon	Bass Harbor			Block Island			Elrington East			Elrington Islet E			Elrington Islet N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Mytilus edulis</i> (%)	0.50	0.87	5	0.10	0.22	5	0.20	0.27	5	0.00	0.00	5	0.80	0.84	5
<i>Mytilus edulis</i> (% spat)	0.10	0.22	5	0.10	0.22	5	0.00	0.00	5	0.30	0.45	5	0.80	1.25	5
<i>Semibalanus balanoides</i> (% set)	0.30	0.45	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
<i>Semibalanus balanoides</i> (%)	20.40	18.53	5	2.70	4.15	5	0.50	0.00	5	1.30	2.08	5	3.20	6.61	5
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Semibalanus cariosus</i> (%)	2.00	4.47	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Spirorbidae</i> , unid. (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus/Semibalanus spp. (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
<i>Littorina</i> spp., eggs (%)	0.00	0.00	5	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Siphonaria thersites</i> , eggs (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
<i>Emplectonema gracile</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.40	0.55	5
<i>Gammaridea</i> , unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	4
<i>Littorina scutulata</i>	73.00	36.26	5	177.20	176.12	5	14.40	12.48	5	53.00	18.85	5	14.00	16.32	5
<i>Littorina sitkana</i>	4.20	4.21	5	35.00	19.85	5	63.00	73.95	5	2.40	1.14	5	4.80	6.91	5
<i>Lottia pelta</i>	0.60	1.34	5	0.60	1.34	5	0.00	0.00	5	0.60	1.34	5	10.80	12.83	5
<i>Lottia strigatella</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	1.20	1.64	5	7.60	13.74	5
<i>Lottiidae</i> , unid.	80.20	51.79	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	10.40	14.31	5
<i>Lottiidae</i> , unid. (juv.)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5	0.60	1.34	5
<i>Musculus</i> spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Nucella lamellosa</i>	3.40	4.16	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Pagurus hirsutusculus</i>	0.00	0.00	5	1.40	3.13	5	0.00	0.00	5	0.00	0.00	5	1.20	1.79	5
<i>Paranemertes peregrina</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Searlesia dira</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5
<i>Siphonaria thersites</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	7.20	11.99	5
<i>Tectura persona</i>	1.20	2.17	5	2.20	4.92	5	14.40	7.64	5	0.40	0.89	5	0.40	0.89	5
<i>Tectura scutum</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Acarina	P	P	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	3
<i>Ligia</i> sp.	0.20	0.45	5	0.20	0.45	5	0.00	0.00	5	0.60	0.89	5	2.00	2.35	5
<i>Tectura testudinalis</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.40	0.89	5	0.00	0.00	5
Platyhelminthes (unid. gray)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5
<i>Balanus glandula</i> (% dead)	0.00	0.00	5	0.10	0.22	5	0.40	0.22	5	0.30	0.27	5	0.80	0.67	5
Balanus/Semibalanus spp. (% set, dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5

Table C-1-1 (continued).

Taxon	Bass Harbor			Block Island			Elrington East			Elrington Islet E			Elrington Islet N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Cthamalus dalli</i> (% dead)	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.10	0.22	5	0.30	0.27	5
<i>Mytilus edulis</i> (dead)	0.20	0.45	5	0.40	0.55	5	0.00	0.00	5	0.00	0.00	5	0.80	1.30	5
<i>Semibalanus balanoides</i> (% dead)	0.60	0.42	5	0.10	0.22	5	0.20	0.27	5	0.30	0.27	5	0.40	0.42	5
<i>Semibalanus cariosus</i> (% set, dead)	0.40	0.89	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Boulder/cobble (%)	0.00	0.00	5	0.00	0.00	5	58.30	53.01	5	0.00	0.00	5	0.00	0.00	5
Gravel/sand (%)	0.00	0.00	5	0.00	0.00	5	1.80	2.17	5	0.00	0.00	5	0.00	0.00	5
Oil scale (primary)	0.00	0.00	5	4.80	2.68	5	6.00	0.00	5	0.00	0.00	5	1.20	2.68	5
Oil cover (%) (primary)	0.00	0.00	5	0.40	0.22	5	4.20	2.59	5	0.00	0.00	5	0.10	0.22	5
Rock (%)	100.00	0.00	5	100.00	0.00	5	40.00	54.77	5	100.00	0.00	5	100.00	0.00	5
Water (%)	0.00	0.00	5	4.00	8.94	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Clean up debris	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5

Table C-1-1 (continued).

Taxon	Elrington Islet W			Eshamy Bay			Herring Bay			Hogg Bay			Mussel Beach N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Blidingia spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Blue-green algae, crust	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.40	0.66	10
Bryophyta, unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Chaetomorpha spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Elachista fucicola	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Encrusting red algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Endocladia muricata	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Endozoic green algae	0.40	0.22	5	0.10	0.22	5	0.00	0.00	5	0.20	0.27	5	0.40	0.21	10
Enteromorpha intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Fucus gardneri	20.50	15.98	5	0.80	0.84	5	0.00	0.00	5	3.70	3.46	5	22.40	21.84	10
Fucus gardneri (sporelings)	0.50	0.35	5	0.90	1.75	5	0.00	0.00	5	0.60	0.22	5	0.55	0.55	10
Gloiopektis furcata	0.30	0.45	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.40	0.66	10
Halosaccion glandiforme	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Hildenbrandia rubra	24.40	13.01	5	0.20	0.45	5	0.30	0.27	5	2.60	3.58	5	7.35	9.82	10
Leathesia difformis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Melanosiphon intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10
Ralfsia fungiformis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.50	1.58	10
Ralfsia spp.	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	4.55	14.21	10
Neorhodomela oregonia	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.55	1.57	10
Scytophion lomentaria	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.15	0.34	10
Soranthera ulvoidea	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10
Verrucaria spp.	0.90	0.65	5	6.00	4.69	5	0.20	0.27	5	73.20	41.58	5	7.15	12.43	10
Porphyra fucicola	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Cladophora sericea	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	3.50	9.44	10
Callothrix spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Vascular plant unknown	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	10
Black crust (maybe Hildenbrandia)	2.50	2.40	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Balanus glandula (%)	0.70	1.30	5	0.30	0.27	5	0.00	0.00	5	0.30	0.27	5	1.10	0.94	10
Balanus glandula (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.15	0.24	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Chthamalus dalli (% set)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.20	0.26	10
Chthamalus dalli (%)	0.40	0.22	5	0.40	0.22	5	0.10	0.22	5	0.10	0.22	5	1.15	1.45	10

Table C-1-1 (continued).

Taxon	Elrington Islet W			Esham Bay			Herring Bay			Hogg Bay			Mussel Beach N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Mytilus edulis</i> (%)	0.80	0.27	5	0.40	0.89	5	0.00	0.00	5	0.00	0.00	5	1.10	1.13	10
<i>Mytilus edulis</i> (% spat)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10
<i>Semibalanus balanoides</i> (% set)	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10
<i>Semibalanus balanoides</i> (%)	0.60	0.22	5	0.30	0.45	5	0.40	0.22	5	0.00	0.00	5	0.45	0.83	10
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10
<i>Semibalanus cariosus</i> (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Spirorbidae</i> , unid. (%)	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Littorina</i> spp., eggs (%)	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Siphonaria thersites</i> , eggs (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Emplectonema gracile</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Gammaridea</i> , unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Littorina scutulata</i>	14.60	13.24	5	26.20	20.22	5	176.40	102.40	5	88.20	103.93	5	79.60	82.59	10
<i>Littorina sitkana</i>	16.60	32.78	5	45.60	31.05	5	70.40	52.26	5	137.40	130.31	5	93.30	77.66	10
<i>Lottia pelta</i>	4.00	3.87	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	1.50	2.12	10
<i>Lottia strigatella</i>	3.00	2.55	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	2.80	5.61	10
<i>Lottiidae</i> , unid.	0.00	0.00	5	1.00	2.24	5	0.00	0.00	5	0.20	0.45	5	2.20	6.96	10
<i>Lottiidae</i> , unid. (juv.)	0.00	0.00	5	0.00	0.00	5	0.40	0.89	5	0.00	0.00	5	1.90	5.67	10
<i>Musculus</i> spp.	0.00	0.00	5	3.60	6.07	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Nucella lamellosa</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Pagurus hirsutiusculus</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.63	10
<i>Paranemertes peregrina</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5	0.00	0.00	10
<i>Searlesia dira</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Siphonaria thersites</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.63	10
<i>Tectura persona</i>	0.20	0.45	5	2.40	5.37	5	1.80	1.10	5	0.00	0.00	5	0.20	0.42	10
<i>Tectura scutum</i>	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Acarina	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	2	0.00	0.00	10
<i>Ligia</i> sp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	2.60	3.13	5	0.00	0.00	10
<i>Tectura testudinalis</i>	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5	0.10	0.32	10
Platyhelminthes (unid. gray)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
<i>Balanus glandula</i> (% dead)	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5	0.50	0.87	5	0.35	0.24	10
<i>Balanus/Semibalanus</i> spp. (% set, dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10

C-9 Table C-1-1 (continued).

Taxon	Elrington Islet W			Eshamy Bay			Herring Bay			Hogg Bay			Mussel Beach N		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Chthamalus dalli (% dead)	0.10	0.22	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.50	0.24	10
Mytilus edulis (dead)	0.60	0.89	5	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.50	0.71	10
Semibalanus balanoides (% dead)	0.40	0.22	5	0.00	0.00	5	0.20	0.27	5	0.00	0.00	5	0.15	0.24	10
Semibalanus cariosus (% set, dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Boulder/cobble (%)	0.00	0.00	5	20.00	44.72	5	7.00	7.58	5	0.00	0.00	5	0.00	0.00	10
Gravel/sand (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10
Oil scale (primary)	2.40	3.29	5	1.20	2.68	5	6.00	0.00	5	0.00	0.00	5	0.60	1.90	10
Oil cover (%) (primary)	0.30	0.45	5	0.10	0.22	5	1.10	1.08	5	0.00	0.00	5	0.05	0.16	10
Rock (%)	100.00	0.00	5	80.00	44.72	5	93.00	7.58	5	100.00	0.00	5	100.00	0.00	10
Water (%)	1.70	2.22	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	11.10	20.71	10
Clean up debris	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10

Table C-1-1 (continued).

Taxon	Mussel Beach S			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Blidingia spp.	0.00	0.00	5	0.00	0.00	5	0.20	0.27	5	0.00	0.00	5
Blue-green algae, spheroid	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Blue-green algae, crust	0.00	0.00	5	1.20	2.68	5	0.00	0.00	5	0.00	0.00	5
Bryophyta, unid.	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Chaetomorpha spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Elachista fucicola	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Encrusting red algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Endocladia muricata	0.00	0.00	5	0.00	0.00	5	0.30	0.27	5	0.10	0.22	5
Endozoic green algae	0.10	0.22	5	0.10	0.22	5	0.20	0.27	5	0.10	0.22	5
Enteromorpha intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Fucus gardneri	2.40	5.37	5	0.00	0.00	5	4.40	5.94	5	15.20	22.32	5
Fucus gardneri (sporelings)	0.40	0.42	5	0.00	0.00	5	0.60	0.22	5	0.60	0.22	5
Gloiopelets furcata	0.00	0.00	5	0.00	0.00	5	3.70	8.00	5	0.70	0.84	5
Halosaccion glandiforme	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Hildenbrandia rubra	0.30	0.27	5	0.10	0.22	5	0.00	0.00	5	2.80	2.28	5
Leathesia difformis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Melanosiphon intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Ralfsia fungiformis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Ralfsia spp.	0.10	0.22	5	1.20	2.68	5	0.00	0.00	5	0.00	0.00	5
Neorhodomela oregonia	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Scytosiphon lomentaria	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Soranthera ulvoidea	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Verrucaria spp.	17.40	13.37	5	0.00	0.00	5	4.60	6.19	5	0.00	0.00	5
Porphyra fucicola	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Cladophora sericea	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Callothrix spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Vascular plant unknown	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Black crust (maybe Hildenbrandia)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus glandula (%)	0.10	0.22	5	0.20	0.27	5	0.10	0.22	5	0.00	0.00	5
Balanus glandula (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus/Semibalanus spp. (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Chthamalus dalli (% set)	0.20	0.27	5	0.00	0.00	5	0.40	0.22	5	0.10	0.22	5
Chthamalus dalli (%)	0.10	0.22	5	0.20	0.27	5	0.50	0.35	5	0.10	0.22	5

Table C-1-1 (continued).

Taxon	Mussel Beach S			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Mytilus edulis</i> (%)	0.10	0.22	5	0.10	0.22	5	0.00	0.00	5	0.50	0.50	5
<i>Mytilus edulis</i> (% spat)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Semibalanus balanoides</i> (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.40	0.22	5
<i>Semibalanus balanoides</i> (%)	0.00	0.00	5	0.20	0.27	5	0.50	0.00	5	1.20	0.76	5
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Semibalanus cariosus</i> (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Spirorbidae</i> , unid. (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Balanus/Semibalanus</i> spp. (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Littorina</i> spp., eggs (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5
<i>Siphonaria thersites</i> , eggs (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Emplectonema gracile</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Gammaridea</i> , unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Littorina scutulata</i>	49.60	81.51	5	219.80	84.46	5	87.60	57.05	5	2.40	2.70	5
<i>Littorina sitkana</i>	235.20	140.18	5	28.60	18.56	5	34.40	39.87	5	18.20	13.70	5
<i>Lottia pelta</i>	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5	0.00	0.00	5
<i>Lottia strigatella</i>	0.00	0.00	5	0.20	0.45	5	0.80	1.79	5	0.00	0.00	5
<i>Lottiidae</i> , unid.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5
<i>Lottiidae</i> , unid. (juv.)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Musculus</i> spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Nucella lamellosa</i>	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5	0.00	0.00	5
<i>Pagurus hirsutusculus</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Paranemertes peregrina</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Searlesia dira</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Siphonaria thersites</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Tectura persona</i>	1.00	1.22	5	1.20	1.79	5	1.80	2.49	5	1.80	1.10	5
<i>Tectura scutum</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Acarina</i>	0.30	0.45	5	0.00	0.00	5	3.00	1.83	4	0.00	0.00	5
<i>Ligia</i> sp.	0.00	0.00	5	0.00	0.00	5	1.40	2.61	5	0.00	0.00	5
<i>Tectura testudinalis</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Platyhelminthes (unid. gray)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
<i>Balanus glandula</i> (% dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
<i>Balanus/Semibalanus</i> spp. (% set, dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5

Table C-1-1 (continued).

Taxon	Mussel Beach S			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Chthamalus dalli (% dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Mytilus edulis (dead)	1.20	2.68	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Semibalanus balanoides (% dead)	0.00	0.00	5	0.00	0.00	5	0.20	0.27	5	0.40	0.22	5
Semibalanus cariosus (% set, dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Boulder/cobble (%)	56.60	51.75	5	0.00	0.00	5	20.60	44.40	5	95.60	0.89	5
Gravel/sand (%)	3.40	4.22	5	0.10	0.22	5	0.00	0.00	5	4.40	0.89	5
Oil scale (primary)	4.80	2.68	5	0.00	0.00	5	0.00	0.00	5	4.80	2.68	5
Oil cover (%) (primary)	0.40	0.22	5	0.00	0.00	5	0.00	0.00	5	0.40	0.22	5
Rock (%)	40.00	54.77	5	100.00	0.00	5	79.40	44.40	5	0.00	0.00	5
Water (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Clean up debris	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5

Table C-1-2 Rocky middle intertidal epibiota, July 1992.

Taxon	Block Island			Block Island QA			Crab Bay			Elrington East			Elrington West		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, spheroid	0.20	0.26	10	0.17	0.26	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, crust	0.10	0.21	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ceramium spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chaetomorpha spp.	0.10	0.32	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Corallina frondescens	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptosiphonia woodii	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Dictyosiphon spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Elachista fucicola	0.10	0.32	10	0.00	0.00	6	0.00	0.00	10	2.00	2.67	10	1.05	1.61	10
Encrusting brown algae	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae	0.05	0.16	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Endocladia muricata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Endozoic green algae	0.90	1.45	10	0.25	0.27	6	0.50	0.00	10	0.00	0.00	10	0.30	0.63	10
Enteromorpha intestinalis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.45	0.60	10	0.40	0.66	10
Enteromorpha linza	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.30	0.35	10	0.20	0.35	10
Fucus gardneri	68.00	31.02	10	77.50	24.85	6	38.50	25.72	10	67.00	24.86	10	26.50	28.66	10
Fucus gardneri (sporelings)	0.25	0.35	10	0.25	0.27	6	0.70	0.54	10	0.40	0.32	10	0.25	0.26	10
Gloiopeltis furcata	0.70	0.86	10	0.58	0.74	6	1.25	1.27	10	0.15	0.34	10	1.30	2.53	10
Halosaccion glandiforme	0.10	0.21	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.20	0.26	10
Hildenbrandia rubra	1.25	1.03	10	2.42	3.76	6	0.00	0.00	10	26.80	27.49	10	8.55	11.67	10
Iridaea heterocarpa	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.80	1.46	10
Leathesia difformis	0.10	0.21	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Mastocarpus papillatus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.55	1.26	10	0.00	0.00	10
Melanosiphon intestinalis	0.10	0.21	10	0.00	0.00	6	0.00	0.00	10	0.20	0.35	10	0.10	0.21	10
Neorhodomela larix	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Odonthalia floccosa	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria callophyloides	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.20	0.42	10
Palmaria hecatensis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Petrocelis spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pilayella littoralis	2.00	3.23	10	0.33	0.52	6	0.30	0.67	10	8.90	7.08	10	3.25	6.19	10
Porphyra spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pterosiphonia bipinnata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ralfsia spp.	0.05	0.16	10	0.00	0.00	6	0.20	0.63	10	0.20	0.35	10	0.05	0.16	10
Rhodochorton purpureum	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.75	1.62	10	2.80	7.86	10
Rhodoglossum/Mastocarpus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.70	0.75	10	0.00	0.00	10
Neorhodomela oregonia	1.30	2.04	10	0.75	1.60	6	0.20	0.63	10	0.05	0.16	10	1.80	2.78	10

Table C-1-2 (continued).

Taxon	Block Island			Block Island QA			Crab Bay			Elrington East			Elrington West		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Scytoniphon lomentaria	0.05	0.16	10	0.00	0.00	6	0.00	0.00	10	1.10	1.45	10	0.05	0.16	10
Soranthera ulvoidea	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10
Sphacelaria rigidula	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Verrucaria spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Palmaria mollis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Caulacanthus ustulatus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Monostroma grevillei	0.15	0.34	10	0.00	0.00	6	0.00	0.00	10	0.05	0.16	10	0.10	0.21	10
Polysiphonia/Pterosiphonia	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cladophora sericea	0.15	0.24	10	0.00	0.00	6	0.00	0.00	10	2.90	7.77	10	0.65	1.03	10
Phycodrys riggii	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ectocarpus siliculosus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chaetomorpha tortuosa	0.00	0.00	10	0.00	0.00	6	0.15	0.34	10	0.00	0.00	10	0.00	0.00	10
Ulva californica	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Neorhodomela (tidepool)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ulva fenestrata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.50	0.94	10	0.05	0.16	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Black crust (maybe Hildenbrandia spp.)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	1.25	1.65	10	1.35	3.11	10
Hinksia spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Alcyonium spp. (%)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Balanus crenatus (%)	0.00	0.00	10	0.00	0.00	6	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Balanus glandula (%)	3.95	7.11	10	1.83	0.98	6	0.20	0.26	10	0.00	0.00	10	1.20	1.65	10
Balanus glandula (% set)	0.00	0.00	10	0.08	0.20	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	6	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% set)	0.05	0.16	10	0.08	0.20	6	0.00	0.00	10	0.05	0.16	10	0.05	0.16	10
Chthamalus dalli (%)	0.65	0.88	10	0.17	0.26	6	0.45	0.60	10	0.25	0.26	10	2.00	2.13	10
Encrusting bryozoan (%)	0.05	0.16	10	0.00	0.00	6	0.00	0.00	10	0.15	0.34	10	0.00	0.00	10
Mytilus edulis (%)	7.15	6.73	10	6.83	2.99	6	2.10	1.90	10	0.05	0.16	10	0.85	1.58	10
Mytilus edulis (% spat)	1.30	3.12	10	0.50	0.00	6	0.30	0.26	10	0.30	0.26	10	0.30	0.26	10
Nucella spp. (% eggs)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (%)	0.00	0.00	10	0.25	0.27	6	0.05	0.16	10	0.10	0.21	10	0.05	0.16	10
Semibalanus balanoides (%)	18.60	13.57	10	14.50	9.14	6	1.70	3.03	10	0.10	0.21	10	7.40	9.72	10
Semibalanus cariosus (% set)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Semibalanus cariosus (%)	0.15	0.24	10	0.00	0.00	6	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.00	0.00	10	0.08	0.20	6	0.00	0.00	10	0.10	0.21	10	0.05	0.16	10
Balanus/Semibalanus spp. (% set)	0.30	0.42	10	0.08	0.20	6	0.00	0.00	10	0.05	0.16	10	0.25	0.63	10
Littorina spp., eggs (%)	0.10	0.21	10	0.00	0.00	6	0.15	0.24	10	0.00	0.00	10	0.00	0.00	10

Table C-1-2 (continued).

Taxon	Block Island			Block Island QA			Crab Bay			Elrington East			Elrington West		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Siphonaria thersites, eggs (%)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.40	0.32	10	0.15	0.24	10
Anthopleura artemisia	0.10	0.32	10	0.17	0.41	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Buccinum baeri	0.10	0.32	10	0.00	0.00	6	0.00	0.00	10	0.50	0.97	10	0.20	0.63	10
Emplectonema gracile	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Evasterias troschelii	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	9	0.00	0.00	5	0.00	0.00	10	0.00	0.00	5	0.00	0.00	10
Gnorimosphaeroma oregonensis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Insect larvae	0.00	0.00	10	0.00	0.00	6	0.00	0.00	9	0.00	0.00	9	0.00	0.00	9
Katharina tunicata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Lacuna spp.	0.20	0.63	10	0.00	0.00	6	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10
Leptasterias hexactis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Leptasterias spp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Littorina scutulata	93.10	57.03	10	99.00	119.34	6	23.30	16.18	10	0.80	2.20	10	2.70	5.93	10
Littorina sitkana	72.40	51.17	10	90.00	35.84	6	127.90	112.25	10	0.30	0.95	10	0.50	0.97	10
Lottia digitalis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Lottia pelta	18.70	16.51	10	6.83	3.82	6	3.00	3.59	10	0.20	0.63	10	13.90	38.40	10
Lottia strigatella	3.50	5.66	10	7.67	5.82	6	5.10	6.79	10	0.00	0.00	10	8.30	12.53	10
Lottiidae, unid.	0.20	0.63	10	0.00	0.00	6	0.50	1.58	10	1.40	2.99	10	3.60	8.36	10
Lottiidae, unid. (juv.)	10.60	24.35	10	3.17	2.40	6	9.00	19.66	10	0.20	0.42	10	14.30	19.60	10
Nemertea, pink	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Nucella lamellosa	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Nucella lima	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Onchidella borealis	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	2.00	5.01	10	0.00	0.00	10
Pagurus beringanus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pagurus granosimanus	0.00	0.00	10	0.67	1.63	6	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
Pagurus hirsutiusculus	21.30	29.11	10	29.17	17.87	6	17.70	52.13	10	42.40	36.47	10	4.30	6.24	10
Paranemertes peregrina	0.10	0.32	10	0.00	0.00	6	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Pentidotea wosnesenskii	0.00	0.00	10	0.17	0.41	6	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
Pisaster ochraceus	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pododesmus macroschismata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Searlesia dira	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Siphonaria thersites	0.00	0.00	10	0.00	0.00	6	2.60	2.84	10	1.10	1.45	10	1.00	1.76	10
Tectura persona	1.20	3.79	10	4.33	6.50	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Tectura scutum	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	3.30	3.68	10	2.70	3.50	10
Acarina	0.00	0.00	10	0.00	0.00	6	P	P	1	0.00	0.00	6	0.00	0.00	9
Littorina sitkana (juv.)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-1-2 (continued).

Taxon	Block Island			Block Island QA			Crab Bay			Elrington East			Elrington West		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Littorina scutulata (juv.)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ligia sp.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Nereis vexillosa	0.10	0.32	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Tectura testudinalis	1.00	1.41	10	0.00	0.00	6	7.50	12.23	10	0.00	0.00	10	1.90	2.73	10
Onchidoris bilamellata	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Anthozoa, unid.	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Fucus gardneri (dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting algae non-coralline (dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Corallina spp. (dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus glandula (% dead)	0.10	0.21	10	0.08	0.20	6	0.05	0.16	10	0.00	0.00	10	0.30	0.26	10
Balanus/Semibalanus spp. (% dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% dead)	0.10	0.21	10	0.00	0.00	6	0.10	0.21	10	0.20	0.26	10	0.45	0.60	10
Mytilus edulis (dead)	1.50	2.51	10	1.50	1.64	6	0.80	0.92	10	0.00	0.00	10	0.00	0.00	10
Nucella lamellosa (dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (% dead)	0.40	0.39	10	0.42	0.38	6	0.30	0.26	10	0.15	0.24	10	0.35	0.34	10
Semibalanus cariosus (% set, dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% dead)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Boulder/cobble (%)	0.00	0.00	10	0.00	0.00	6	72.20	32.64	10	61.60	44.63	10	94.70	12.60	10
Gravel/sand (%)	0.00	0.00	10	0.00	0.00	6	18.80	25.13	10	2.15	2.77	10	1.30	3.20	10
Mud (%)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil scale (primary)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.60	1.90	10
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Rock (%)	100.00	0.00	10	100.00	0.00	6	9.00	28.46	10	36.30	45.52	10	4.00	12.65	10
Water (%)	0.40	0.97	10	1.17	2.86	6	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
Wood	0.00	0.00	10	0.00	0.00	6	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-1-2 (continued).

Taxon	Eshamy Bay			Herring Bay			Hogg Bay			Mussel Beach N			Mussel Beach N (A,B,C)		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.90	1.24	10	0.00	0.00	10	1.55	2.09	10	0.25	0.63	10	3.00	2.00	3
Blue-green algae, spheroid	0.00	0.00	10	0.30	0.35	10	0.00	0.00	10	0.10	0.21	10	0.00	0.00	3
Blue-green algae, crust	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Ceramium spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	3
Chaetomorpha spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Cladophora spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Corallina frondescens	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.40	1.26	10	0.00	0.00	3
Cryptosiphonia woodii	0.00	0.00	10	0.20	0.63	10	0.05	0.16	10	0.00	0.00	10	1.50	2.18	3
Dictyosiphon spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.15	0.24	10	0.00	0.00	3
Elachista fucicola	0.00	0.00	10	0.00	0.00	10	3.55	4.48	10	0.10	0.32	10	0.17	0.29	3
Encrusting brown algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	4.10	8.21	10	0.33	0.58	3
Endocladia muricata	0.05	0.16	10	0.00	0.00	10	1.25	1.65	10	0.00	0.00	10	0.00	0.00	3
Endozoic green algae	0.00	0.00	10	0.10	0.21	10	1.55	3.10	10	0.30	0.26	10	0.00	0.00	3
Enteromorpha intestinalis	0.10	0.21	10	0.00	0.00	10	1.60	1.82	10	0.15	0.24	10	0.00	0.00	3
Enteromorpha linza	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Fucus gardneri	29.20	28.73	10	81.70	22.83	10	47.70	21.80	10	29.50	32.96	10	11.17	12.55	3
Fucus gardneri (sporelings)	0.70	0.54	10	0.30	0.26	10	0.65	0.34	10	0.30	0.35	10	0.50	0.00	3
Gloiopeltis furcata	1.35	1.51	10	0.40	0.66	10	1.15	1.81	10	0.85	1.27	10	0.00	0.00	3
Halosaccion glandiforme	0.00	0.00	10	0.00	0.00	10	0.35	0.63	10	0.15	0.34	10	0.00	0.00	3
Hildenbrandia rubra	0.40	0.32	10	0.35	0.63	10	9.10	8.50	10	0.50	0.91	10	0.00	0.00	3
Iridaea heterocarpa	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Leathesia difformis	0.05	0.16	10	0.05	0.16	10	0.00	0.00	10	0.45	0.96	10	1.00	0.00	3
Mastocarpus papillatus	0.00	0.00	10	0.05	0.16	10	1.10	0.97	10	0.00	0.00	10	0.00	0.00	3
Melanosiphon intestinalis	0.00	0.00	10	0.10	0.21	10	0.30	0.63	10	0.00	0.00	10	0.00	0.00	3
Neorhodomela larix	0.00	0.00	10	0.80	2.53	10	0.00	0.00	10	1.00	3.16	10	1.50	1.32	3
Odonthalia floccosa	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.70	2.21	10	0.00	0.00	3
Palmaria callophyloides	0.00	0.00	10	0.00	0.00	10	0.80	2.53	10	0.05	0.16	10	0.00	0.00	3
Palmaria hecatensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Petrocelis spp.	0.00	0.00	10	0.50	1.58	10	0.10	0.21	10	0.10	0.21	10	0.00	0.00	3
Pilayella littoralis	0.00	0.00	10	1.55	3.35	10	0.80	1.93	10	1.85	3.80	10	0.17	0.29	3
Porphyra spp.	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10	0.00	0.00	3
Pterosiphonia bipinnata	0.00	0.00	10	0.00	0.00	10	0.25	0.63	10	0.55	1.57	10	0.00	0.00	3
Ralfsia spp.	0.00	0.00	10	0.05	0.16	10	0.25	0.63	10	3.70	6.21	10	3.33	2.89	3
Rhodochorton purpureum	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Rhodoglossum/Mastocarpus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.17	0.29	3
Neorhodomela oregonae	0.90	2.02	10	2.55	3.27	10	0.00	0.00	10	2.90	3.75	10	0.00	0.00	3

Table C-1-2 (continued).

Taxon	Eshamby Bay			Herring Bay			Hogg Bay			Mussel Beach N			Mussel Beach N (A,B,C)		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Scytoniphon lomentaria</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.25	0.35	10	0.17	0.29	3
<i>Soranthera ulvoidea</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	1.70	3.08	10	0.33	0.29	3
<i>Sphacelaria rigidula</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Verrucaria</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Palmaria mollis</i>	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	3
<i>Caulacanthus ustulatus</i>	0.00	0.00	10	0.00	0.00	10	0.20	0.35	10	0.00	0.00	10	0.00	0.00	3
<i>Monostroma grevillei</i>	0.00	0.00	10	0.10	0.32	10	0.60	1.58	10	0.05	0.16	10	2.50	2.29	3
<i>Polysiphonia/Pterosiphonia</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Cladophora sericea</i>	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10	1.00	1.99	10	0.00	0.00	3
<i>Phycodrys riggii</i>	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	3
<i>Ectocarpus siliculosus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Chaetomorpha tortuosa</i>	0.00	0.00	10	5.00	7.35	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	3
<i>Ulva californica</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Neorhodomela</i> (tidepool)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Ulva fenestrata</i>	0.00	0.00	10	0.00	0.00	10	0.30	0.42	10	0.00	0.00	10	0.00	0.00	3
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	1.33	1.53	3
Black crust (maybe <i>Hildenbrandia</i> spp.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Hinksia</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	3
<i>Alcyonium</i> spp. (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Balanus crenatus</i> (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Balanus glandula</i> (%)	1.15	1.47	10	0.55	0.60	10	9.55	17.02	10	2.65	4.56	10	0.33	0.58	3
<i>Balanus glandula</i> (% set)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Balanus/Semibalanus</i> spp. (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Chthamalus dalli</i> (% set)	0.50	0.67	10	0.05	0.16	10	0.05	0.16	10	0.30	0.35	10	0.33	0.58	3
<i>Chthamalus dalli</i> (%)	2.85	3.86	10	0.40	0.61	10	6.35	9.06	10	9.10	9.55	10	0.67	0.29	3
Encrusting bryozoan (%)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	3
<i>Mytilus edulis</i> (%)	9.40	15.56	10	4.75	3.97	10	0.95	2.83	10	7.80	13.15	10	0.67	0.29	3
<i>Mytilus edulis</i> (% spat)	0.90	1.15	10	0.80	0.48	10	8.00	9.71	10	2.85	4.43	10	1.00	0.87	3
<i>Nucella</i> spp. (% eggs)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10	0.00	0.00	3
<i>Semibalanus balanoides</i> (%)	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Semibalanus balanoides</i> (%)	7.90	15.83	10	2.25	4.59	10	0.25	0.63	10	9.15	21.12	10	0.00	0.00	3
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10	10.17	17.18	3
<i>Semibalanus cariosus</i> (%)	0.00	0.00	10	0.00	0.00	10	16.45	14.68	10	0.85	0.88	10	0.00	0.00	3
<i>Spirorbidae</i> , unid. (%)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Balanus/Semibalanus</i> spp. (% set)	0.00	0.00	10	0.00	0.00	10	1.30	3.12	10	0.15	0.24	10	0.33	0.29	3
Littorina spp., eggs (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3

Table C-1-2 (continued).

Taxon	Eshamy Bay			Herring Bay			Hogg Bay			Mussel Beach N			Mussel Beach N (A,B,C)		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Siphonaria thersites</i> , eggs (%)	0.00	0.00	10	0.00	0.00	10	0.35	0.24	10	0.10	0.21	10	0.00	0.00	3
<i>Anthopleura artemisia</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Buccinum baeri</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Emplectonema gracile</i>	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Evasterias troschelii</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	3
<i>Gammaridea</i> , unid.	0.00	0.00	9	0.00	0.00	10	0.00	0.00	8	0.00	0.00	10	0.00	0.00	2
<i>Gnorimosphaeroma oregonensis</i>	0.00	0.00	10	0.90	2.23	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Insect larvae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	9	0.00	0.00	3
<i>Katharina tunicata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Lacuna</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Leptasterias hexactis</i>	0.00	0.00	10	0.00	0.00	10	1.70	2.63	10	0.00	0.00	10	0.00	0.00	3
<i>Leptasterias</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	3
<i>Littorina scutulata</i>	120.10	179.94	10	186.80	98.88	10	20.60	42.27	10	47.00	123.23	10	21.67	36.67	3
<i>Littorina sitkana</i>	133.40	162.25	10	146.10	131.18	10	13.60	18.03	10	0.40	0.84	10	0.00	0.00	3
<i>Lottia digitalis</i>	0.00	0.00	10	0.00	0.00	10	0.20	0.42	10	0.00	0.00	10	0.00	0.00	3
<i>Lottia pelta</i>	6.40	9.90	10	7.50	6.20	10	1.20	1.99	10	7.40	13.22	10	4.00	6.08	3
<i>Lottia strigatella</i>	25.30	33.30	10	13.40	10.57	10	4.70	10.74	10	2.40	5.97	10	81.33	120.69	3
<i>Lottiidae</i> , unid.	0.10	0.32	10	0.00	0.00	10	10.00	27.97	10	2.70	6.46	10	130.67	71.14	3
<i>Lottiidae</i> , unid. (juv.)	9.30	18.54	10	22.60	20.46	10	0.50	1.08	10	136.50	65.08	10	0.00	0.00	3
<i>Nemertea</i> , pink	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	3
<i>Nucella lamellosa</i>	0.20	0.63	10	0.00	0.00	10	10.80	13.22	10	0.60	0.84	10	0.33	0.58	3
<i>Nucella lima</i>	0.00	0.00	10	0.40	0.70	10	0.00	0.00	10	0.70	1.34	10	0.00	0.00	3
<i>Onchidella borealis</i>	0.10	0.32	10	0.00	0.00	10	0.30	0.48	10	0.00	0.00	10	0.00	0.00	3
<i>Pagurus beringanus</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Pagurus granosimanus</i>	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Pagurus hirsutiusculus</i>	16.40	21.48	10	6.00	6.36	10	1.50	3.06	10	16.80	25.25	10	3.67	2.08	3
<i>Paranemertes peregrina</i>	0.00	0.00	10	0.00	0.00	10	0.20	0.42	10	0.00	0.00	10	0.00	0.00	3
<i>Pentidotea wosnesenskii</i>	0.00	0.00	10	0.40	0.97	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Pisaster ochraceus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Pododesmus macroschismata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Searlesia dira</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	3.40	5.76	10	1.67	1.53	3
<i>Siphonaria thersites</i>	0.00	0.00	10	0.00	0.00	10	1.60	3.13	10	2.60	6.17	10	0.00	0.00	3
<i>Tectura persona</i>	0.40	1.26	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Tectura scutum</i>	0.50	1.08	10	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10	0.67	1.15	3
Acarina	0.00	0.00	10	0.00	0.00	10	0.00	0.00	9	0.00	0.00	10	0.00	0.00	3
<i>Littorina sitkana</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.50	1.27	10	0.00	0.00	3

Table C-1-2 (continued).

Taxon	Eshamy Bay			Herring Bay			Hogg Bay			Mussel Beach N			Mussel Beach N (A,B,C)		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Littorina scutulata</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	100.80	214.64	10	0.00	0.00	3
<i>Ligia</i> sp.	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10	0.00	0.00	3
<i>Nereis vexillifera</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Tectura testudinalis</i>	1.60	1.96	10	0.70	0.82	10	0.20	0.63	10	3.90	5.69	10	1.67	2.08	3
<i>Onchidoris bilamellata</i>	0.00	0.00	10	1.00	3.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Anthozoa, unid.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	31.67	15.28	3
<i>Fucus gardneri</i> (dead)	0.30	0.95	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.17	0.29	3
Encrusting algae non-coralline (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.17	0.29	3
<i>Corallina</i> spp. (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.17	0.29	3
<i>Balanus glandula</i> (% dead)	0.05	0.16	10	0.00	0.00	10	0.35	0.24	10	0.60	0.32	10	0.00	0.00	3
<i>Balanus/Semibalanus</i> spp. (% dead)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Chthamalus dalli</i> (% dead)	0.30	0.26	10	0.00	0.00	10	0.25	0.35	10	0.50	0.33	10	2.17	1.76	3
<i>Mytilus edulis</i> (dead)	5.10	7.75	10	2.10	2.23	10	15.30	24.12	10	6.20	8.12	10	10.00	1.73	3
<i>Nucella lamellosa</i> (dead)	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
<i>Semibalanus balanoides</i> (% dead)	1.40	2.00	10	5.80	4.96	10	0.40	0.94	10	0.35	0.41	10	0.00	0.00	3
<i>Semibalanus cariosus</i> (% set, dead)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.05	0.16	10	0.00	0.00	3
<i>Balanus/Semibalanus</i> spp. (% dead)	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10	0.00	0.00	3
Boulder/cobble (%)	32.70	39.81	10	4.30	7.99	10	52.30	44.79	10	0.00	0.00	10	0.00	0.00	3
Gravel/sand (%)	2.90	4.09	10	1.00	3.16	10	2.20	6.27	10	0.00	0.00	10	0.00	0.00	3
Mud (%)	0.00	0.00	10	0.80	1.62	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Oil scale (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3
Rock (%)	64.40	42.23	10	93.90	11.17	10	45.50	44.12	10	100.00	0.00	10	100.00	0.00	3
Water (%)	0.60	1.90	10	0.10	0.32	10	0.00	0.00	10	8.20	13.27	10	5.67	5.13	3
Wood	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	3

Table C-1-2 (continued).

Taxon	NW Bay Islet			NW Bay W Arm Cat 3			NW Bay W Arm Cat ?			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.00	0.00	10	0.50	0.35	5	1.50	1.97	5	0.40	0.46	10	0.00	0.00	10
Blue-green algae, spheroid	0.05	0.16	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.20	0.26	10
Blue-green algae, crust	0.00	0.00	10	0.00	0.00	5	1.00	1.17	5	0.05	0.16	10	0.00	0.00	10
Ceramium spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Chaetomorpha spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.30	0.35	10
Corallina frondescens	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Cryptosiphonia woodii	0.00	0.00	10	0.00	0.00	5	1.20	2.14	5	0.20	0.26	10	0.00	0.00	10
Dictyosiphon spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Elachista fucicola	0.00	0.00	10	0.00	0.00	5	0.40	0.42	5	0.75	1.23	10	0.00	0.00	10
Encrusting brown algae	0.00	0.00	10	1.20	2.68	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.20	0.45	5	2.70	2.17	5	0.40	0.66	10	0.00	0.00	10
Endocladia muricata	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	1.50	3.75	10	0.00	0.00	10
Endozoic green algae	0.10	0.21	10	0.00	0.00	5	0.00	0.00	5	0.20	0.26	10	0.10	0.21	10
Enteromorpha intestinalis	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.50	0.62	10	0.05	0.16	10
Enteromorpha linza	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Fucus gardneri	24.20	34.65	10	63.00	36.50	5	85.00	3.54	5	50.50	28.01	10	21.70	12.91	10
Fucus gardneri (sporelings)	0.05	0.16	10	0.20	0.45	5	0.80	0.27	5	0.90	0.94	10	0.45	0.28	10
Gloiopeltis furcata	0.25	0.26	10	4.60	2.07	5	2.50	1.80	5	2.65	1.76	10	2.20	2.08	10
Halosaccion glandiforme	0.00	0.00	10	0.00	0.00	5	1.00	0.61	5	1.70	2.20	10	0.00	0.00	10
Hildenbrandia rubra	0.10	0.21	10	1.10	0.89	5	10.20	9.07	5	2.90	3.81	10	0.30	0.67	10
Iridaea heterocarpa	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Leathesia difformis	0.25	0.63	10	0.00	0.00	5	0.30	0.45	5	0.05	0.16	10	0.00	0.00	10
Mastocarpus papillatus	0.00	0.00	10	0.00	0.00	5	1.00	1.00	5	1.45	2.45	10	0.05	0.16	10
Melanosiphon intestinalis	0.05	0.16	10	0.10	0.22	5	0.20	0.45	5	0.40	0.39	10	0.10	0.32	10
Neorhodomela larix	0.00	0.00	10	0.00	0.00	5	6.10	13.36	5	0.00	0.00	10	0.00	0.00	10
Odonthalia floccosa	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Palmaria callophylloides	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Palmaria hecatensis	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Petrocelis spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10
Pilayella littoralis	0.00	0.00	10	0.80	1.79	5	1.40	1.14	5	10.10	6.81	10	5.55	6.39	10
Porphyra spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.05	0.16	10
Pterosiphonia bipinnata	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.35	0.63	10	0.05	0.16	10
Ralfsia spp.	0.05	0.16	10	0.00	0.00	5	0.00	0.00	5	1.00	3.16	10	0.25	0.63	10
Rhodochorton purpureum	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Rhodoglossum/Mastocarpus	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.45	0.93	10	0.00	0.00	10
Neorhodomela oregonia	0.00	0.00	10	2.40	4.34	5	5.20	4.82	5	0.50	0.67	10	0.30	0.95	10

Table C-1-2 (continued).

Taxon	NW Bay Islet			NW Bay W Arm Cat 3			NW Bay W Arm Cat ?			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Scytoniphon lomentaria	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Soranthera ulvoidea	0.00	0.00	10	0.00	0.00	5	0.10	0.22	5	0.05	0.16	10	0.05	0.16	10
Sphaelaria rigidula	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10
Verrucaria spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Palmaria mollis	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Caulacanthus ustulatus	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Monostroma grevillei	0.00	0.00	10	0.00	0.00	5	0.20	0.45	5	0.20	0.26	10	0.10	0.21	10
Polysiphonia/Pterosiphonia	0.00	0.00	10	0.00	0.00	5	0.40	0.42	5	0.00	0.00	10	0.00	0.00	10
Cladophora sericea	0.10	0.32	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Phycodrys riggii	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Ectocarpus siliculosus	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10
Chaetomorpha tortuosa	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Ulva californica	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Neorhodomela (tidepool)	0.60	1.26	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Ulva fenestrata	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.20	0.35	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Black crust (maybe Hildenbrandia spp.)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10
Hinksia spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Alcyonium spp. (%)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Balanus crenatus (%)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Balanus glandula (%)	0.80	1.49	10	0.30	0.27	5	0.30	0.27	5	0.05	0.16	10	0.50	0.94	10
Balanus glandula (% set)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.35	0.67	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% set)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.95	1.48	10	0.35	0.24	10
Chthamalus dalli (%)	0.75	0.49	10	12.60	5.27	5	9.20	3.96	5	24.35	22.43	10	0.50	0.00	10
Encrusting bryozoan (%)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.10	0.21	10	0.00	0.00	10
Mytilus edulis (%)	2.45	2.95	10	0.00	0.00	5	0.00	0.00	5	0.20	0.63	10	5.25	5.97	10
Mytilus edulis (% spat)	0.15	0.24	10	0.90	0.65	5	2.50	3.26	5	0.10	0.21	10	0.30	0.35	10
Nucella spp. (% eggs)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (%)	0.05	0.16	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.45	0.60	10
Semibalanus balanoides (%)	14.35	14.66	10	11.40	11.70	5	0.90	0.65	5	0.25	0.35	10	10.40	8.44	10
Semibalanus cariosus (% set)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.05	0.16	10
Semibalanus cariosus (%)	0.00	0.00	10	0.00	0.00	5	0.70	0.76	5	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10
Littorina spp., eggs (%)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10

Table C-1-2 (continued).

Taxon	NW Bay Islet			NW Bay W Arm Cat 3			NW Bay W Arm Cat ?			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Siphonaria thersites, eggs (%)	0.00	0.00	10	0.20	0.27	5	0.90	0.65	5	0.35	0.24	10	0.00	0.00	10
Anthopleura artemisia	0.00	0.00	10	0.00	0.00	5	0.60	0.89	5	0.00	0.00	10	0.00	0.00	10
Buccinum baeri	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Eriplectonema gracile	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Evasterias troschelii	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	4	0.00	0.00	7	0.00	0.00	9
Gnorimosphaeroma oregonensis	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Insect larvae	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	8	0.00	0.00	10
Katharina tunicata	0.00	0.00	10	0.00	0.00	5	0.20	0.45	5	0.00	0.00	10	0.00	0.00	10
Lacuna spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10
Leptasterias hexactis	0.00	0.00	10	0.60	1.34	5	0.00	0.00	5	0.20	0.63	10	0.00	0.00	10
Leptasterias spp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Littorina scutulata	286.40	106.57	10	433.60	375.32	5	12.20	22.30	5	7.80	19.56	10	56.30	40.83	10
Littorina sitkana	52.20	75.86	10	83.80	152.39	5	6.20	12.21	5	0.40	0.97	10	91.00	85.17	10
Lottia digitalis	0.10	0.32	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Lottia pelta	0.60	0.97	10	20.00	22.23	5	4.80	2.95	5	2.10	2.88	10	1.30	1.95	10
Lottia strigatella	0.90	1.91	10	15.00	2.45	5	26.40	9.53	5	5.60	7.21	10	3.30	3.92	10
Lottiidae, unid.	15.70	23.07	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	4.80	10.02	10
Lottiidae, unid. (juv.)	4.90	8.56	10	7.20	16.10	5	13.80	13.54	5	6.50	9.90	10	11.60	17.09	10
Nemertea, pink	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Nucella lamellosa	0.00	0.00	10	14.60	13.72	5	7.20	6.98	5	3.00	3.13	10	0.00	0.00	10
Nucella lima	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.20	0.42	10
Onchidella borealis	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10
Pagurus beringanus	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10
Pagurus granosimanus	0.00	0.00	10	0.00	0.00	5	0.20	0.45	5	0.00	0.00	10	0.00	0.00	10
Pagurus hirsutiusculus	2.20	3.55	10	2.80	3.11	5	7.80	3.90	5	0.90	1.10	10	8.50	18.46	10
Paranemertes peregrina	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Pentidotea wosnesenskii	0.00	0.00	10	0.00	0.00	5	0.20	0.45	5	0.10	0.32	10	0.00	0.00	10
Pisaster ochraceus	0.00	0.00	10	0.00	0.00	5	0.20	0.45	5	0.00	0.00	10	0.00	0.00	10
Pododesmus macroschismata	0.00	0.00	10	0.20	0.45	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Searlesia dira	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Siphonaria thersites	0.10	0.32	10	3.20	4.60	5	63.20	62.43	5	13.30	9.58	10	0.00	0.00	10
Tectura persona	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10
Tectura scutum	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	3.70	6.99	10	0.00	0.00	10
Acarina	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	6	0.00	0.00	9
Littorina sitkana (juv.)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10

Table C-1-2 (continued).

Taxon	NW Bay Islet			NW Bay W Arm Cat 3			NW Bay W Arm Cat ?			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Littorina scutulata</i> (juv.)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	2.70	8.54	10	0.00	0.00	10
<i>Ligia</i> sp.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Nereis vexillosa</i>	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Tectura testudinalis</i>	1.50	3.17	10	0.00	0.00	5	0.00	0.00	5	2.80	4.61	10	4.30	4.00	10
<i>Onchidoris bilamellata</i>	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Anthozoa, unid.	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Fucus gardneri</i> (dead)	0.00	0.00	10	0.00	0.00	5	0.20	0.27	5	0.00	0.00	10	0.00	0.00	10
Encrusting algae non-coralline (dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Corallina</i> spp. (dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Balanus glandula</i> (% dead)	0.05	0.16	10	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.05	0.16	10
<i>Balanus/Semibalanus</i> spp. (% dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Chthamalus dalli</i> (% dead)	0.00	0.00	10	1.50	1.41	5	1.70	1.86	5	0.95	0.76	10	0.00	0.00	10
<i>Mytilus edulis</i> (dead)	0.00	0.00	10	0.80	1.30	5	4.20	4.92	5	0.00	0.00	10	1.80	2.39	10
<i>Nucella lamellosa</i> (dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Semibalanus balanoides</i> (% dead)	0.10	0.21	10	1.40	1.47	5	0.00	0.00	5	0.20	0.26	10	0.60	0.32	10
<i>Semibalanus cariosus</i> (% set, dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
<i>Balanus/Semibalanus</i> spp. (% dead)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Boulder/cobble (%)	6.40	18.86	10	0.00	0.00	5	0.00	0.00	5	74.00	42.48	10	95.00	4.19	10
Gravel/sand (%)	1.00	3.16	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	5.00	4.19	10
Mud (%)	2.00	3.16	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Oil scale (primary)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10
Rock (%)	89.80	23.09	10	100.00	0.00	5	100.00	0.00	5	26.00	42.48	10	0.00	0.00	10
Water (%)	1.20	3.79	10	3.40	6.54	5	1.20	1.64	5	0.00	0.00	10	0.00	0.00	10
Wood	0.60	1.90	10	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10

Table C-1-3 Rocky lower intertidal epibiota, July 1992.

Taxon	Crab Bay			Elrington East			Elrington West			Esham Bay			Hogg Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	22.30	19.61	10	1.13	1.73	8	0.00	0.00	8	24.95	23.66	10	5.50	7.23	10
Alaria spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.05	0.16	10
Articulated coralline algae	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.30	0.26	10	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Bossiella cretacea	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Callithamnion pikeanum	0.05	0.16	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Chordaria spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Corallina frondescens	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.15	0.24	10
Cryptosiphonia woodii	2.50	2.00	10	0.75	1.73	8	6.50	11.30	8	0.15	0.34	10	2.35	1.56	10
Elachista fucicola	0.35	0.67	10	3.63	3.81	8	3.13	5.08	8	0.15	0.24	10	1.75	1.77	10
Encrusting coralline algae	0.60	0.61	10	0.00	0.00	8	0.13	0.23	8	1.70	2.46	10	0.90	1.71	10
Endozoic green algae	0.05	0.16	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Enteromorpha intestinalis	0.05	0.16	10	0.19	0.37	8	0.31	0.37	8	0.10	0.21	10	0.10	0.21	10
Enteromorpha linza	0.05	0.16	10	26.75	25.92	8	2.69	2.55	8	0.00	0.00	10	0.00	0.00	10
Enteromorpha prolifera	0.00	0.00	10	7.69	10.55	8	0.06	0.18	8	0.35	0.34	10	0.00	0.00	10
Fucus gardneri	24.80	15.22	10	42.75	19.36	8	42.50	40.55	8	58.80	27.20	10	41.20	24.99	10
Fucus gardneri (sporelings)	0.00	0.00	10	0.94	2.06	8	0.31	0.26	8	0.15	0.24	10	0.40	0.21	10
Gloiopektis furcata	0.00	0.00	10	0.00	0.00	8	0.13	0.23	8	1.00	1.86	10	0.00	0.00	10
Halosaccion glandiforme	11.20	9.05	10	0.19	0.26	8	0.50	0.65	8	8.00	6.65	10	1.50	1.22	10
Hildenbrandia rubra	0.00	0.00	10	8.88	15.30	8	0.94	1.21	8	0.70	1.23	10	3.65	5.22	10
Iridaea heterocarpa	7.65	10.86	10	0.06	0.18	8	0.00	0.00	8	0.55	1.07	10	7.70	13.86	10
Leathesia difformis	0.10	0.21	10	0.00	0.00	8	0.00	0.00	8	1.10	1.41	10	0.35	0.24	10
Mastocarpus papillatus	0.00	0.00	10	1.13	2.23	8	0.00	0.00	8	0.95	2.50	10	0.80	1.30	10
Melanosiphon intestinalis	0.00	0.00	10	0.81	1.46	8	0.06	0.18	8	0.00	0.00	10	0.05	0.16	10
Neorhodomela larix	0.50	0.85	10	0.00	0.00	8	0.00	0.00	8	8.00	7.94	10	3.30	9.39	10
Odonthalia floccosa	1.35	1.80	10	0.06	0.18	8	1.38	3.50	8	0.00	0.00	10	5.10	6.69	10
Palmaria callophyloides	4.90	4.93	10	3.25	5.74	8	2.63	3.34	8	0.70	0.92	10	0.60	1.56	10
Palmaria hecatensis	4.75	5.57	10	0.00	0.00	8	0.13	0.35	8	0.00	0.00	10	0.55	1.26	10
Petrocelis spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.15	0.24	10
Phycodrys spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	1.00	1.63	10
Pilayella littoralis	10.40	13.38	10	0.25	0.46	8	3.25	3.81	8	0.30	0.63	10	4.70	6.53	10
Porphyra spp.	0.15	0.24	10	1.44	3.48	8	0.13	0.23	8	0.00	0.00	10	0.10	0.21	10
Pterosiphonia bipinnata	1.90	3.10	10	0.56	1.40	8	0.63	0.92	8	1.45	1.64	10	4.85	6.85	10
Ptilota filicina	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.05	0.16	10	1.55	2.77	10
Ptilota spp.	0.70	1.55	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Ralfsia fungiformis	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Crab Bay			Elrington East			Elrington West			Esham Bay			Hogg Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Ralfsia spp.	0.35	0.67	10	1.13	1.81	8	0.44	1.05	8	0.00	0.00	10	1.50	2.40	10
Rhodochorton purpureum	0.05	0.16	10	2.94	5.05	8	2.63	4.03	8	0.00	0.00	10	0.00	0.00	10
Rhodoglossum/Mastocarpus	0.00	0.00	10	1.13	2.08	8	5.75	7.23	8	2.20	4.58	10	0.00	0.00	10
Neorhodomela oregonae	0.45	0.69	10	2.63	6.25	8	2.69	2.81	8	7.90	8.86	10	0.95	1.62	10
Scytesiphon lomentaria	0.05	0.16	10	0.13	0.23	8	0.31	0.26	8	0.30	0.26	10	0.25	0.35	10
Soranthera ulvoidea	0.15	0.24	10	1.63	3.11	8	0.31	0.26	8	0.00	0.00	10	0.65	1.23	10
Sphacelaria rigidula	0.50	1.58	10	1.63	2.20	8	0.00	0.00	8	0.00	0.00	10	0.45	0.96	10
Ulva/Ulvaria spp.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.25	0.35	10	0.00	0.00	10
Palmaria mollis	0.25	0.42	10	0.00	0.00	8	0.06	0.18	8	0.00	0.00	10	0.05	0.16	10
Eudesme virescens	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Monostroma grevillei	15.50	5.68	10	0.06	0.18	8	1.81	3.85	8	0.10	0.21	10	5.30	6.14	10
Tokidadendron kuriensis	0.20	0.26	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	1.20	1.78	10
Cladophora sericea	0.00	0.00	10	5.75	9.42	8	7.81	8.88	8	0.00	0.00	10	0.00	0.00	10
Elachista lubrica	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.05	0.16	10
Dictyosiphon foeniculaceus	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.25	0.63	10	0.00	0.00	10
Phycodrys riggii	1.85	4.67	10	0.00	0.00	8	0.00	0.00	8	0.30	0.35	10	0.00	0.00	10
Scagelia pylaisaei	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.45	0.83	10
Chaetomorpha melagonium	0.05	0.16	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Petalonia fascia	0.00	0.00	10	0.06	0.18	8	0.06	0.18	8	0.00	0.00	10	0.00	0.00	10
Acrosiphonia arcta	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Ulva californica	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.05	0.16	10
Ulva fenestrata	5.00	2.71	10	4.19	5.11	8	3.13	4.91	8	0.00	0.00	10	5.50	5.40	10
Polysiphonia pacifica	0.05	0.16	10	0.13	0.35	8	0.00	0.00	8	0.00	0.00	10	0.65	0.75	10
Polysiphonia hendryi	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	2.05	4.19	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Ulothrix flacca	0.50	1.58	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Polysiphonia senticulosa	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	1.85	4.71	10
Antithamnion pacifica	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.10	0.21	10
Alcyonium spp. (%)	0.00	0.00	10	0.13	0.35	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Balanus crenatus (%)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Balanus glandula (%)	0.00	0.00	10	0.00	0.00	8	0.06	0.18	8	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% set)	0.00	0.00	10	0.06	0.18	8	0.00	0.00	8	0.45	0.96	10	0.15	0.24	10
Chthamalus dalli (%)	0.10	0.21	10	0.13	0.23	8	0.25	0.27	8	2.40	3.83	10	0.35	0.24	10
Encrusting bryozoan (%)	11.55	15.62	10	0.38	0.44	8	0.38	0.69	8	1.60	2.39	10	2.50	4.62	10
Halichondria panicea (%)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.50	1.08	10
Mytilus edulis (%)	0.00	0.00	10	0.00	0.00	8	3.19	8.82	8	0.00	0.00	10	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Crab Bay			Elrington East			Elrington West			Eshamy Bay			Hogg Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Mytilus edulis</i> (% spat)	5.80	15.64	10	0.06	0.18	8	0.06	0.18	8	3.45	6.26	10	5.75	11.20	10
<i>Nucella</i> spp. (% eggs)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.05	0.16	10
<i>Semibalanus balanoides</i> (%)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.05	0.16	10	0.05	0.16	10
<i>Semibalanus balanoides</i> (%)	0.00	0.00	10	0.00	0.00	8	0.13	0.23	8	0.05	0.16	10	0.00	0.00	10
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	1.85	2.06	10
<i>Semibalanus cariosus</i> (%)	0.00	0.00	10	0.00	0.00	8	0.06	0.18	8	0.05	0.16	10	31.00	35.84	10
<i>Spirorbidae</i> , unid. (%)	1.55	0.98	10	0.44	0.18	8	0.25	0.27	8	1.90	3.20	10	0.05	0.16	10
<i>Scrupocellaria</i> sp. (%)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.20	0.26	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	8	0.06	0.18	8	0.00	0.00	10	0.40	0.61	10
<i>Siphonaria</i> thersites, eggs (%)	0.00	0.00	10	0.00	0.00	8	0.06	0.18	8	0.00	0.00	10	0.05	0.16	10
Hydroids unid. (%)	0.10	0.32	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Musculus</i> spp. (% spat)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Abarenicola pacifica</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Anthopleura artemisia</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	7.10	9.16	10
Asterozoa, unid. (juv.)	1.00	1.25	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.30	0.48	10
<i>Buccinum baeri</i>	0.00	0.00	10	0.75	0.71	8	0.50	1.07	8	0.00	0.00	10	0.00	0.00	10
<i>Cryptobranchia concentrica</i>	0.30	0.95	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Cucumaria vegae</i>	0.00	0.00	10	1.88	4.91	8	0.13	0.35	8	0.00	0.00	10	0.00	0.00	10
<i>Dermasterias imbricata</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.10	0.32	10
<i>Emplectonema gracile</i>	0.00	0.00	10	0.13	0.35	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Easterias troschelii</i>	0.20	0.63	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.10	0.32	10
Gammaridea, unid.	0.00	0.00	9	0.00	0.00	4	0.00	0.00	5	0.00	0.00	7	0.00	0.00	4
<i>Gnorimosphaeroma oregonensis</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Hemigrapsus oregonensis</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Hiatella arctica</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.70	2.21	10	0.10	0.32	10
Insect larvae	0.10	0.32	10	0.00	0.00	8	0.00	0.00	7	0.00	0.00	10	0.00	0.00	2
<i>Katharina tunicata</i>	0.50	0.85	10	0.13	0.35	8	0.00	0.00	8	0.10	0.32	10	0.60	1.07	10
<i>Lacuna</i> spp.	0.40	0.97	10	0.00	0.00	8	0.00	0.00	8	12.20	9.73	10	1.80	5.35	10
<i>Leptasterias hexactis</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	1.20	2.57	10	0.40	0.84	10
<i>Leptasterias</i> spp.	0.50	0.97	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
<i>Littorina scutulata</i>	0.00	0.00	10	0.00	0.00	8	0.25	0.46	8	6.10	11.92	10	0.50	1.58	10
<i>Littorina sitkana</i>	0.00	0.00	10	0.00	0.00	8	0.38	1.06	8	2.80	5.65	10	0.00	0.00	10
<i>Lottia pelta</i>	0.10	0.32	10	0.00	0.00	8	0.00	0.00	8	0.80	1.32	10	0.00	0.00	10
<i>Lottia strigatella</i>	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	9.50	14.75	10	0.00	0.00	10
Lottiidae, unid.	0.00	0.00	10	0.50	1.41	8	3.88	10.56	8	0.00	0.00	10	0.00	0.00	10
Lottiidae, unid. (juv.)	2.20	4.61	10	3.50	9.90	8	25.75	64.14	8	12.50	22.09	10	11.80	8.35	10

Table C-1-3 (continued).

Taxon	Crab Bay			Elrington East			Elrington West			Eshamy Bay			Hogg Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Margarites marginatus	6.90	7.42	10	0.00	0.00	8	0.00	0.00	8	2.40	2.12	10	0.10	0.32	10
Margarites pupillus	0.50	0.97	10	0.00	0.00	8	0.00	0.00	8	0.20	0.63	10	0.00	0.00	10
Mites, red	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Mitrella gouldi	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Mitrella spp.	2.20	4.47	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.60	1.26	10
Musculus spp.	0.00	0.00	8	0.00	0.00	8	0.00	0.00	8	0.20	0.63	10	0.00	0.00	10
Nemertea, unid.	0.10	0.32	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.10	0.32	10
Nemertea, white	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.00	0.00	10
Nucella lamellosa	0.90	2.85	10	0.00	0.00	8	0.25	0.46	8	8.50	16.53	10	36.20	31.67	10
Nucella lima	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Onchidella borealis	0.00	0.00	10	0.38	0.74	8	0.13	0.35	8	0.00	0.00	10	0.20	0.42	10
Pagurus granosimanus	0.00	0.00	10	1.50	4.24	8	0.00	0.00	8	0.40	0.52	10	0.00	0.00	10
Pagurus hirsutiusculus	0.70	0.82	10	16.38	9.24	8	20.88	31.28	8	8.10	7.77	10	2.00	2.91	10
Pagurus spp.	0.00	0.00	10	0.25	0.46	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Paranemertes peregrina	0.10	0.32	10	0.00	0.00	8	0.00	0.00	8	0.30	0.48	10	0.15	0.34	10
Pentidotea wosnesenskii	0.00	0.00	10	0.13	0.35	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Pholidae/Stichaeidae	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.00	0.00	10
Pholis ornata	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Pisaster ochraceus	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.00	0.00	10
Protothaca staminea	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Pugettia dalli	0.20	0.42	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Pycnopodia helianthoides	1.50	2.68	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Searlesia dira	3.70	5.38	10	1.63	2.62	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Serpula vermicularis	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Siphonaria thersites	0.10	0.32	10	0.25	0.71	8	0.13	0.35	8	0.00	0.00	10	0.70	1.57	10
Strongylocentrotus droebachiensis	0.30	0.67	10	0.00	0.00	8	0.00	0.00	8	0.70	1.34	10	0.00	0.00	10
Tectura persona	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Tectura scutum	0.00	0.00	10	9.63	10.84	8	0.00	0.00	8	0.20	0.42	10	0.10	0.32	10
Tonicella lineata	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.10	0.32	10	0.00	0.00	10
Acarina	0.00	0.00	4	0.00	0.00	3	0.00	0.00	5	0.00	0.00	10	0.00	0.00	3
Littorina sitkana (juv.)	0.00	0.00	10	0.00	0.00	8	3.63	7.56	8	0.00	0.00	10	0.00	0.00	10
Actiniidae	0.00	0.00	10	0.13	0.35	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Tectura testudinalis	0.10	0.32	10	0.00	0.00	8	5.75	8.97	8	0.80	1.48	10	0.00	0.00	10
Nucella lamellosa (juv.)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	4.40	12.89	10	0.00	0.00	10
Anthozoa, unid.	0.00	0.00	10	0.00	0.00	8	0.38	0.74	8	0.00	0.00	10	0.00	0.00	10
Nucella spp. (juv.)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	21.70	34.22	10
Asteriidae spp. (juv.)	0.00	0.00	10	0.00	0.00	8	0.38	0.74	8	0.00	0.00	10	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Crab Bay			Elrington East			Elrington West			Eshamy Bay			Hogg Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Lacuna vincta	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Nudibranch (orange)	0.00	0.00	10	1.38	1.69	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Pycnogonida unid.	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Articulated coralline algae	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.20	0.42	10	0.00	0.00	10
Balanus crenatus (% dead)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Balanus glandula (% dead)	0.00	0.00	10	0.00	0.00	8	0.44	1.05	8	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% dead)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.05	0.16	10
Chthamalus dalli (% dead)	0.10	0.32	10	0.13	0.23	8	0.19	0.26	8	1.90	4.70	10	0.05	0.16	10
Mytilus edulis (dead)	7.10	15.33	10	0.13	0.35	8	2.13	3.60	8	4.35	5.14	10	2.25	2.05	8
Semibalanus balanoides (% dead)	0.00	0.00	10	0.00	0.00	8	0.13	0.23	8	0.05	0.16	10	0.00	0.00	10
Semibalanus cariosus (% set, dead)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	0.00	0.00	10	0.50	0.67	10
Spirorbidae (% dead)	0.00	0.00	10	0.25	0.27	8	0.00	0.00	8	0.00	0.00	10	0.00	0.00	10
Boulder/cobble (%)	31.00	36.95	10	91.38	7.44	8	88.50	11.75	8	2.00	3.50	10	13.10	31.14	10
Gravel/sand (%)	8.40	14.54	10	8.63	7.44	8	11.50	11.75	8	0.00	0.00	10	1.90	4.77	10
Rock (%)	60.60	46.89	10	0.00	0.00	8	0.00	0.00	8	98.00	3.50	10	85.00	33.75	10
Water (%)	0.00	0.00	10	0.00	0.00	8	0.00	0.00	8	2.00	4.64	10	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Mussel Beach N			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	3.95	4.79	10	0.00	0.00	9	19.00	13.45	8	0.00	0.00	10
Alaria spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Articulated coralline algae	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	10	0.22	0.67	9	0.00	0.00	8	0.00	0.00	10
Bossiella cretacea	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Callithamnion pikeanum	0.00	0.00	10	0.00	0.00	9	0.38	0.69	8	0.00	0.00	10
Chordaria spp.	0.05	0.16	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	52.00	30.75	10
Corallina frondescens	1.85	2.35	10	0.06	0.17	9	4.25	8.53	8	0.00	0.00	10
Cryptosiphonia woodii	6.00	6.31	10	4.89	6.29	9	4.94	4.38	8	2.40	2.91	10
Elachista fucicola	0.70	0.75	10	1.50	2.09	9	0.00	0.00	8	0.00	0.00	10
Encrusting coralline algae	6.90	4.18	10	0.72	1.06	9	1.00	0.89	8	0.00	0.00	10
Endozoic green algae	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.20	0.26	10
Enteromorpha intestinalis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.15	0.24	10
Enteromorpha linza	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.00	0.00	10
Enteromorpha prolifera	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.10	0.32	10
Fucus gardneri	30.30	18.04	10	59.56	27.06	9	7.88	8.56	8	31.60	16.20	10
Fucus gardneri (sporelings)	0.05	0.16	10	0.22	0.36	9	0.00	0.00	8	0.40	0.21	10
Gloiopektis furcata	0.00	0.00	10	0.50	0.97	9	0.00	0.00	8	0.20	0.26	10
Halosaccion glandiforme	3.75	3.53	10	0.50	0.43	9	0.50	0.71	8	0.05	0.16	10
Hildenbrandia rubra	0.55	1.57	10	0.67	1.41	9	0.00	0.00	8	0.15	0.24	10
Iridaea heterocarpa	5.65	6.54	10	0.50	1.32	9	0.63	1.77	8	0.10	0.21	10
Leathesia difformis	0.10	0.21	10	0.11	0.22	9	3.06	2.54	8	0.00	0.00	10
Mastocarpus papillatus	0.05	0.16	10	0.72	0.79	9	4.63	4.41	8	0.50	0.41	10
Melanosiphon intestinalis	0.00	0.00	10	0.28	0.44	9	0.00	0.00	8	0.60	0.81	10
Neorhodomela larix	8.30	7.65	10	0.22	0.44	9	18.88	16.08	8	0.00	0.00	10
Odonthalia floccosa	1.00	1.89	10	0.00	0.00	9	0.25	0.71	8	0.00	0.00	10
Palmaria callophyloides	0.00	0.00	10	0.00	0.00	9	0.13	0.35	8	0.40	0.46	10
Palmaria hecatensis	6.75	8.82	10	0.00	0.00	9	9.25	7.74	8	0.00	0.00	10
Petrocelis spp.	0.05	0.16	10	0.17	0.25	9	0.00	0.00	8	0.10	0.21	10
Phycodrys spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pilayella littoralis	0.00	0.00	10	0.22	0.67	9	0.25	0.38	8	27.80	20.15	10
Porphyra spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.05	0.16	10
Pterosiphonia bipinnata	0.15	0.34	10	0.06	0.17	9	4.56	5.39	8	2.25	6.25	10
Ptilota filicina	1.20	1.67	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Ptilota spp.	0.00	0.00	10	0.00	0.00	9	0.44	0.68	8	0.00	0.00	10
Ralfsia fungiformis	2.00	4.61	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Mussel Beach N			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Ralfsia spp.	0.00	0.00	10	5.94	12.90	9	0.06	0.18	8	0.40	0.32	10
Rhodochorton purpureum	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.10	0.21	10
Rhodoglossum/Mastocarpus	0.30	0.67	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Neorhodomela oregonia	20.20	19.27	10	0.83	1.06	9	0.13	0.35	8	28.40	22.25	10
Scytoniphon lomentaria	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Soranthera ulvoidea	0.35	0.24	10	0.00	0.00	9	0.56	0.62	8	0.00	0.00	10
Sphacelaria rigidula	0.00	0.00	10	0.11	0.22	9	0.19	0.37	8	0.00	0.00	10
Ulva/Ulvaria spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Palmaria mollis	0.05	0.16	10	0.11	0.22	9	0.06	0.18	8	0.05	0.16	10
Eudesme virescens	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.05	0.16	10
Monostroma grevillei	6.00	5.10	10	0.56	0.98	9	4.31	5.44	8	6.75	10.37	10
Tokidodendron kuriensis	1.30	1.40	10	0.00	0.00	9	4.38	3.99	8	0.00	0.00	10
Cladophora sericea	0.00	0.00	10	1.22	1.99	9	0.00	0.00	8	0.00	0.00	10
Elachista lubrica	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Dictyosiphon foeniculaceus	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.60	1.07	10
Phycodrys riggii	1.35	1.58	10	0.00	0.00	9	4.81	4.94	8	0.00	0.00	10
Scagelia pylaisaei	0.10	0.21	10	0.00	0.00	9	0.38	0.69	8	0.00	0.00	10
Chaetomorpha melagonium	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.10	0.21	10
Petalonia fascia	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Acrosiphonia arcta	0.00	0.00	10	0.94	1.21	9	0.00	0.00	8	0.00	0.00	10
Ulva californica	0.00	0.00	10	1.17	2.06	9	0.00	0.00	8	0.05	0.16	10
Ulva fenestrata	0.90	1.26	10	0.00	0.00	9	0.50	0.93	8	2.15	2.47	10
Polysiphonia pacifica	0.00	0.00	10	0.00	0.00	9	0.69	1.75	8	0.30	0.35	10
Polysiphonia hendryi	0.00	0.00	10	0.00	0.00	9	0.13	0.35	8	0.00	0.00	10
Encrusting coralline algae	0.25	0.63	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Ulothrix flacca	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Polysiphonia senticulosa	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Antithamnion pacifica	0.10	0.32	10	0.00	0.00	9	0.50	1.04	8	0.00	0.00	10
Alcyonium spp. (%)	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.00	0.00	10
Balanus crenatus (%)	0.30	0.95	10	0.00	0.00	9	0.00	0.00	8	0.30	0.42	10
Balanus glandula (%)	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.10	0.21	10
Chthamalus dalli (% set)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.10	0.21	10
Chthamalus dalli (%)	0.00	0.00	10	0.50	0.61	9	0.06	0.18	8	0.20	0.26	10
Encrusting bryozoan (%)	1.10	2.45	10	0.06	0.17	9	1.00	0.85	8	0.40	0.66	10
Halichondria panicea (%)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Mytilus edulis (%)	0.10	0.21	10	0.00	0.00	9	0.00	0.00	8	0.30	0.35	10

Table C-1-3 (continued).

Taxon	Mussel Beach N			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Mytilus edulis</i> (% spat)	0.15	0.24	10	0.72	0.26	9	0.69	1.75	8	0.85	1.13	10
<i>Nucella</i> spp. (% eggs)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
<i>Semibalanus balanoides</i> (%)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.25	0.26	10
<i>Semibalanus balanoides</i> (%)	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	2.05	2.41	10
<i>Semibalanus cariosus</i> (% set)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
<i>Semibalanus cariosus</i> (%)	0.15	0.24	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
<i>Spirorbidae</i> , unid. (%)	1.05	0.55	10	0.72	1.25	9	0.69	0.26	8	0.00	0.00	10
<i>Scrupocellaria</i> sp. (%)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
<i>Balanus/Semibalanus</i> spp. (% set)	0.00	0.00	10	0.39	0.22	9	0.00	0.00	8	0.15	0.24	10
<i>Siphonaria thersites</i> , eggs (%)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Hydroids unid. (%)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
<i>Musculus</i> spp. (% spat)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	3
 Abarenicola pacifica	0.00	0.00	9	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Anthopleura artemisia	0.70	2.21	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Asterozoa, unid. (juv.)	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Buccinum baeri	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Cryptobranchia concentrica	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Cucumaria vegae	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Dermasterias imbricata	0.00	0.00	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Emplectonema gracile	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Evasterias troschelii	0.00	0.00	10	0.22	0.67	9	0.00	0.00	8	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	6	0.00	0.00	7	0.00	0.00	7	0.00	0.00	5
Gnorimosphaeroma oregonensis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.80	1.48	10
Hemigrapsus oregonensis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.20	0.42	10
Hiatella arctica	0.00	0.00	10	0.33	0.71	9	0.00	0.00	8	0.00	0.00	10
Insect larvae	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Katharina tunicata	0.30	0.48	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Lacuna spp.	0.40	0.84	10	0.00	0.00	9	0.38	0.52	8	1.20	1.23	10
Leptasterias hexactis	0.20	0.42	10	0.00	0.00	9	0.00	0.00	8	0.10	0.32	10
Leptasterias spp.	0.40	0.52	10	0.00	0.00	9	0.13	0.35	8	0.00	0.00	10
Littorina scutulata	0.00	0.00	10	58.11	97.85	9	0.13	0.35	8	2.50	3.06	10
Littorina sitkana	0.00	0.00	10	1.44	1.94	9	0.00	0.00	8	1.00	1.05	10
Lottia pelta	0.00	0.00	10	0.22	0.44	9	0.13	0.35	8	0.00	0.00	10
Lottia strigatella	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Lottiidae, unid.	0.20	0.63	10	0.11	0.33	9	0.00	0.00	8	4.80	10.22	10
Lottiidae, unid. (juv.)	0.20	0.63	10	143.89	124.94	9	0.00	0.00	8	11.90	21.72	10

Table C-1-3 (continued).

Taxon	Mussel Beach N			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Margarites marginatus	0.30	0.95	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Margarites pupillus	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Mites, red	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.30	0.67	10
Mitrella gouldi	0.00	0.00	10	0.00	0.00	9	0.25	0.46	8	0.00	0.00	10
Mitrella spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Musculus spp.	0.00	0.00	10	0.06	0.17	9	0.00	0.00	8	0.00	0.00	10
Nemertea, unid.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Nemertea, white	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Nucella lamellosa	0.30	0.67	10	0.00	0.00	9	3.38	4.72	8	0.20	0.42	10
Nucella lima	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.70	1.25	10
Oncidella borealis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pagurus granosimanus	0.70	1.89	10	0.00	0.00	9	0.13	0.35	8	0.00	0.00	10
Pagurus hirsutiusculus	3.40	2.41	10	23.56	11.80	9	0.25	0.46	8	12.20	11.61	10
Pagurus spp.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Paranemertes peregrina	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pentidotea wosnessenskii	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.10	0.32	10
Pholidae/Stichaeidae	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pholis ornata	0.00	0.00	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Pisaster ochraceus	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Protobrachia staminea	0.00	0.00	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Pugettia dalli	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pycnopodia helianthoides	0.00	0.00	10	0.22	0.44	9	0.13	0.35	8	0.00	0.00	10
Searlesia dira	1.30	1.64	10	0.00	0.00	9	0.00	0.00	8	0.30	0.67	10
Serpula vermicularis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	4
Siphonaria thersites	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Strongylocentrotus droebachiensis	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Tectura persona	0.00	0.00	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Tectura scutum	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Tonicella lineata	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Acarina	0.00	0.00	9	0.00	0.00	9	0.00	0.00	5	0.00	0.00	4
Littorina sitkana (juv.)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Actiniidae	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Tectura testudinalis	0.00	0.00	10	0.00	0.00	9	0.13	0.35	8	1.50	1.72	10
Nucella lamellosa (juv.)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.10	0.32	10
Anthozoa, unid.	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Nucella spp. (juv.)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.30	0.95	10
Asteriidae spp. (juv.)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10

Table C-1-3 (continued).

Taxon	Mussel Beach N			NW Bay Islet			Outside Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Lacuna vincta	0.00	0.00	10	1.00	2.12	9	0.00	0.00	8	0.00	0.00	10
Nudibranch (orange)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Pycnogonida unid.	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Articulated coralline algae	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Encrusting coralline algae	0.05	0.16	10	0.11	0.33	9	0.00	0.00	8	0.00	0.00	10
Balanus crenatus (% dead)	0.00	0.00	10	1.78	3.18	9	0.00	0.00	8	0.30	0.26	10
Balanus glandula (% dead)	0.00	0.00	10	0.72	1.99	9	0.00	0.00	8	0.00	0.00	10
Balanus/Semibalanus spp. (% dead)	0.00	0.00	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Chthamalus dalli (% dead)	0.00	0.00	10	0.11	0.22	9	0.00	0.00	8	0.05	0.16	10
Mytilus edulis (dead)	2.30	4.42	10	3.67	6.32	9	1.00	2.83	8	1.60	1.78	10
Semibalanus balanoides (% dead)	0.10	0.32	10	0.00	0.00	9	0.00	0.00	8	0.10	0.21	10
Semibalanus cariosus (% set, dead)	0.10	0.21	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Spirorbidae (% dead)	0.15	0.24	10	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10
Boulder/cobble (%)	0.00	0.00	10	0.67	1.66	9	100.00	0.00	8	96.20	4.54	10
Gravel/sand (%)	0.00	0.00	10	1.89	3.62	9	0.00	0.00	8	3.80	4.54	10
Rock (%)	100.00	0.00	10	97.44	5.08	9	0.00	0.00	8	0.00	0.00	10
Water (%)	0.95	1.64	10	0.00	0.00	9	0.00	0.00	8	0.10	0.32	10

**Table C-1-4 Non-metric multidimensional scaling scores for epibiota from rocky middle intertidal stations by category, July 1990, 1991, and 1992.**

Station	Axes	1	2	3
Bay of Isles 1990		0.6128	0.1526	-0.1070
Bay of Isles 1991		0.5701	0.2011	-0.2569
Block Island 1990		0.7608	-0.8750	0.2698
Block Island 1991		0.1912	-0.2362	0.4088
Block Island 1992		0.3453	0.3141	0.1545
Crab Bay 1990		0.3483	0.1151	-0.5137
Crab Bay 1991		0.3188	0.2214	-0.3452
Crab Bay 1992		0.3396	0.3082	-0.2240
Elrington Island East 1992		-1.1515	0.4690	1.4691
Elrington Island West 1992		-0.4298	0.5147	0.7884
Eshamy Bay 1990		0.5062	0.0453	-0.0935
Eshamy Bay 1991		0.3546	-0.0538	0.0068
Eshamy Bay 1992		0.3343	0.2496	0.0208
Herring Bay 1990		0.5235	-0.4699	-0.2200
Herring Bay 1991		0.3162	-0.0129	0.3348
Herring Bay 1992		0.5362	0.4277	0.0182
Hogg Bay 1990		-0.5436	-0.3829	-1.0866
Hogg Bay 1991		-0.5277	-0.2070	-0.5976
Hogg Bay 1992		-0.8474	0.1781	-0.6997
Mussel Beach S 1992		-0.1565	0.8443	0.2768
NW Bay W Arm 1991 Cat ?		-0.9424	0.5032	-0.2574
NW Bay W Arm 1992 Cat ?		-0.9352	0.7315	-0.2244
NW Bay W Arm 1991 Cat 3		-0.1992	-0.3436	0.0690
NW Bay W Arm 1992 Cat 3		-0.1507	0.3308	-0.2243
NW Bay Islet 1990		1.0885	-2.2322	0.0310
NW Bay Islet 1991		0.5885	-0.2663	0.5109
NW Bay Islet 1992		0.6682	0.1847	0.0172
Outside Bay 1990		-1.6721	-0.7586	0.0082
Outside Bay 1991		-1.5250	-0.1293	-0.0331
Outside Bay 1992		-1.3377	0.1329	0.0888
Snug Harbor 1990		0.8041	-0.1187	-0.0379
Snug Harbor 1991		0.2755	-0.3340	0.2585
Snug Harbor 1992		0.4113	0.1711	0.1122

Table C-2-1 Boulder-cobble, upper intertidal epibiota, July 1992.

Taxon	Bass Harbor			Point Helen N3		
	Mean	S.D.	No.	Mean	S.D.	No.
Endozoic green algae	0.25	0.26	10	0.07	0.19	7
<i>Fucus gardneri</i> (sporelings)	0.00	0.00	10	0.14	0.24	7
<i>Gloiopektis furcata</i>	0.00	0.00	10	0.29	0.39	7
 Balanus glandula (%)	 2.15	 2.92	 10	 0.36	 0.24	 7
<i>Chthamalus dalli</i> (% set)	0.40	0.32	10	0.14	0.24	7
<i>Chthamalus dalli</i> (%)	0.35	0.24	10	1.07	0.45	7
<i>Mytilus edulis</i> (%)	2.00	1.86	10	0.14	0.24	7
<i>Mytilus edulis</i> (% spat)	0.00	0.00	10	0.07	0.19	7
<i>Semibalanus balanoides</i> (%)	0.10	0.21	10	0.29	0.27	7
<i>Semibalanus balanoides</i> (%)	1.90	1.20	10	0.36	0.38	7
<i>Semibalanus cariosus</i> (% set)	0.05	0.16	10	0.00	0.00	7
<i>Semibalanus cariosus</i> (%)	0.10	0.21	10	0.07	0.19	7
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.07	0.19	7
Gammaridea, unid.	0.00	0.00	9	0.00	0.00	7
<i>Littorina scutulata</i>	4.70	3.86	10	24.14	44.36	7
<i>Littorina sitkana</i>	12.40	6.69	10	31.00	53.66	7
<i>Lottia pelta</i>	1.70	1.16	10	0.00	0.00	7
<i>Lottia strigatella</i>	0.00	0.00	10	0.57	0.79	7
Lottiidae, unid.	0.00	0.00	10	2.14	4.81	7
Lottiidae, unid. (juv.)	0.00	0.00	10	6.29	13.10	7
<i>Pagurus hirsutiusculus</i>	0.00	0.00	10	0.14	0.38	7
<i>Tectura persona</i>	0.00	0.00	10	2.43	1.90	7
Acarina	0.00	0.00	5	0.00	0.00	7
<i>Littorina sitkana</i> (juv.)	0.00	0.00	10	69.14	182.93	7
<i>Littorina scutulata</i> (juv.)	0.10	0.32	10	0.00	0.00	7
<i>Tectura testudinalis</i>	7.80	3.55	10	0.00	0.00	7
Balanus glandula (% dead)	0.35	0.24	10	0.14	0.24	7
<i>Chthamalus dalli</i> (% dead)	0.10	0.21	10	0.07	0.19	7
<i>Semibalanus balanoides</i> (% dead)	0.50	0.24	10	0.36	0.38	7
Balanus rostratus (% dead)	0.05	0.16	10	0.00	0.00	7
 Boulder/cobble (%)	 95.60	 1.96	 10	 99.57	 1.13	 7
Gravel/sand (%)	4.40	1.96	10	0.43	1.13	7
Oil scale (primary)	0.00	0.00	10	0.86	2.27	7
Oil cover (primary)(%)	0.00	0.00	10	0.07	0.19	7

Table C-2-2 Boulder-cobble, middle intertidal epibiota, July 1992.

Taxon	NE Latouche Island			Omni Site			Point Helen N3			Point Helen S		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Blue-green algae, spheroid	0.00	0.00	10	0.50	0.00	10	0.00	0.00	10	0.00	0.00	5
Blue-green algae, crust	0.00	0.00	10	1.10	2.08	10	0.00	0.00	10	0.00	0.00	5
Endozoic green algae	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	5
<i>Fucus gardneri</i>	0.00	0.00	10	68.00	17.67	10	0.10	0.21	10	0.00	0.00	5
<i>Fucus gardneri</i> (sporelings)	0.00	0.00	10	0.20	0.26	10	0.00	0.00	10	0.00	0.00	5
<i>Gloiopteltis furcata</i>	0.00	0.00	10	1.90	1.88	10	0.15	0.24	10	0.00	0.00	5
<i>Hildenbrandia rubra</i>	0.35	0.24	10	8.00	8.82	10	0.00	0.00	10	0.00	0.00	5
<i>Ralfsia</i> spp.	0.00	0.00	10	1.45	2.24	10	0.00	0.00	10	0.00	0.00	5
 Balanus glandula (%)	1.00	0.71	10	0.10	0.21	10	0.20	0.26	10	0.20	0.27	5
<i>Chthamalus dalli</i> (%)	1.00	0.85	10	0.45	0.28	10	0.55	0.37	10	0.50	0.00	5
Encrusting bryozoan (%)	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10	0.00	0.00	5
<i>Mytilus edulis</i> (%)	1.00	0.88	10	3.50	2.79	10	0.35	0.24	10	0.00	0.00	5
<i>Mytilus edulis</i> (% spat)	0.15	0.24	10	0.40	0.61	10	0.35	0.24	10	0.00	0.00	5
<i>Semibalanus balanoides</i> (%)	0.40	0.21	10	1.05	0.55	10	0.15	0.24	10	0.00	0.00	5
<i>Semibalanus balanoides</i> (%)	1.85	1.49	10	23.00	11.78	10	0.15	0.24	10	0.50	0.00	5
<i>Semibalanus cariosus</i> (%)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	5
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	10	0.20	0.26	10	0.00	0.00	5
Littorina spp., eggs (%)	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	5
<i>Musculus</i> spp. (% spat)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	5
<i>Clinocottus acuticeps</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.20	0.45	5
Gammaridea, unid.	0.00	0.00	9	0.00	0.00	8	0.00	0.00	10	0.00	0.00	5
<i>Gnorimosphaeroma oregonensis</i>	0.00	0.00	10	0.50	1.58	10	0.00	0.00	10	0.00	0.00	5
<i>Hiatella arctica</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	5
Littorina scutulata	1.10	1.10	10	34.40	44.27	10	32.70	36.21	10	13.00	16.45	5
Littorina sitkana	286.00	162.79	10	358.00	165.55	10	105.60	106.44	10	25.60	31.00	5
<i>Lottia pelta</i>	0.00	0.00	10	2.50	3.89	10	0.00	0.00	10	0.00	0.00	5
<i>Lottia strigatella</i>	6.30	9.26	10	0.90	1.52	10	3.10	6.26	10	0.00	0.00	5
Lottiidae, unid.	0.00	0.00	10	2.00	4.62	10	2.50	6.62	10	0.40	0.89	5
Lottiidae, unid. (juv.)	0.50	1.58	10	1.00	2.54	10	28.30	35.40	10	8.40	18.78	5
<i>Musculus</i> spp.	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	5
<i>Nucella lima</i>	0.00	0.00	10	0.90	2.51	10	0.00	0.00	10	0.00	0.00	5
<i>Pagurus beringanus</i>	0.00	0.00	10	0.90	1.52	10	0.00	0.00	10	0.00	0.00	5
<i>Pagurus hirsutusculus</i>	0.00	0.00	10	18.90	45.77	10	0.00	0.00	10	0.00	0.00	5

Table C-2-2 (continued).

Taxon	NE Latouche Island			Omni Site			Point Helen N3			Point Helen S		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Pentidotea wosnesenskii	0.00	0.00	10	1.10	1.60	10	0.00	0.00	10	0.00	0.00	5
Siphonaria thersites	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	1.60	3.58	5
Tectura persona	6.20	7.13	10	0.80	2.20	10	0.00	0.00	10	5.20	6.69	5
Tectura scutum	0.80	1.75	10	0.60	0.84	10	0.00	0.00	10	0.00	0.00	5
Littorina sitkana (juv.)	0.00	0.00	10	0.00	0.00	10	101.10	212.13	10	0.00	0.00	5
Littorina scutulata (juv.)	0.00	0.00	10	58.20	81.39	10	0.00	0.00	10	0.00	0.00	5
Tectura testudinalis	0.00	0.00	10	0.70	0.95	10	1.70	1.64	10	0.00	0.00	5
Lottia borealis	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	5
Balanus glandula (% dead)	0.30	0.26	10	0.00	0.00	10	0.15	0.24	10	0.30	0.27	5
Balanus/Semibalanus spp. (% dead)	0.00	0.00	10	0.15	0.34	10	0.00	0.00	10	0.00	0.00	5
Chthamalus dalli (% dead)	0.20	0.26	10	0.05	0.16	10	0.10	0.21	10	0.30	0.27	5
Mytilus edulis (dead)	0.10	0.32	10	0.10	0.32	10	0.20	0.42	10	0.00	0.00	5
Semibalanus balanoides (% dead)	0.35	0.24	10	0.10	0.21	10	0.20	0.26	10	0.30	0.27	5
Spirorbidae (% dead)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	5
Boulder/Cobble (%)	98.10	2.51	10	98.10	3.11	10	95.40	5.82	10	93.00	15.65	5
Gravel/Sand (%)	1.90	2.51	10	1.90	3.11	10	4.60	5.82	10	0.00	0.00	5
Oil scale (primary)	0.00	0.00	10	0.00	0.00	10	0.60	1.90	10	1.20	2.68	5
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.10	0.22	5
Rock (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	7.00	15.65	5
Water (%)	1.20	3.12	10	3.30	4.55	10	0.00	0.00	10	4.00	8.94	5

**Table C-2-3** Boulder-cobble, lower intertidal epibiota, July 1992.

Taxon	NE Latouche Island			Point Helen N3		
	Mean	S.D.	No.	Mean	S.D.	No.
<i>Acrosiphonia</i> spp.	1.00	1.55	10	0.00	0.00	10
<i>Alaria</i> spp.	0.00	0.00	10	0.05	0.16	10
<i>Ceramium</i> spp.	0.00	0.00	10	0.05	0.16	10
Encrusting brown algae	8.85	8.49	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	9
Endozoic green algae	0.00	0.00	10	0.05	0.16	10
<i>Enteromorpha intestinalis</i>	0.65	1.03	10	1.40	2.38	10
<i>Enteromorpha linza</i>	0.00	0.00	10	6.15	6.84	10
<i>Enteromorpha prolifera</i>	1.50	1.58	10	0.10	0.32	10
Filamentous red algae	0.00	0.00	10	0.05	0.16	10
<i>Fucus gardneri</i>	0.60	0.91	10	0.15	0.34	10
<i>Fucus gardneri</i> (sporelings)	0.15	0.24	10	0.00	0.00	10
<i>Hildenbrandia rubra</i>	0.00	0.00	10	0.05	0.16	10
<i>Iridaea heterocarpa</i>	0.00	0.00	10	0.10	0.21	10
<i>Laminaria groenlandica</i>	0.00	0.00	10	0.80	1.75	10
<i>Laminaria saccharina</i>	0.00	0.00	10	0.90	1.91	10
<i>Leathesia difformis</i>	0.45	0.28	10	0.45	0.28	10
<i>Mastocarpus papillatus</i>	0.50	0.33	10	0.60	1.90	10
<i>Neorhodomela larix</i>	0.00	0.00	10	0.10	0.21	10
<i>Palmaria callophyloides</i>	0.15	0.24	10	0.00	0.00	10
<i>Palmaria hecatensis</i>	0.10	0.21	10	0.00	0.00	10
<i>Pilayella littoralis</i>	0.10	0.32	10	0.00	0.00	10
<i>Porphyra</i> spp.	0.00	0.00	10	0.05	0.16	10
<i>Ralfsia</i> spp.	0.00	0.00	10	8.50	5.30	10
<i>Neorhodomela oregonia</i>	0.15	0.34	10	0.00	0.00	10
<i>Scytoniphon lomentaria</i>	2.30	2.94	10	3.20	4.41	10
<i>Ulva/Ulvularia</i> spp.	0.75	0.49	10	0.00	0.00	10
<i>Palmaria mollis</i>	0.00	0.00	10	0.40	0.39	10
<i>Analipus japonicus</i>	0.00	0.00	10	0.20	0.42	10
<i>Eudesme virescens</i>	0.00	0.00	10	0.25	0.26	10
<i>Kornmannia leptoderma</i>	0.00	0.00	10	0.50	1.58	10
<i>Monostroma grevillei</i>	0.00	0.00	10	0.50	0.71	10
<i>Tokidadendron kuriensis</i>	0.00	0.00	10	0.05	0.16	10
<i>Cymathere triplicata</i>	0.00	0.00	10	7.50	16.87	10
<i>Dictyosiphon foeniculaceus</i>	1.50	1.76	10	6.85	7.27	10
<i>Petalonia fascia</i>	0.00	0.00	10	1.00	1.53	10
<i>Chordaria flagelliformis</i>	0.00	0.00	10	2.40	2.90	10
<i>Acrosiphonia arcta</i>	0.00	0.00	10	3.70	5.16	10
<i>Ulva fenestrata</i>	0.00	0.00	10	1.90	1.45	10
<i>Laminaria yezoensis</i>	0.00	0.00	10	1.00	3.16	10
<i>Polysiphonia urceolata</i>	0.00	0.00	10	1.50	3.37	10
<i>Costaria costata</i>	0.00	0.00	10	5.40	6.72	10

Table C-2-3 Boulder-cobble, lower intertidal epibiota, July 1992.

Taxon	NE Latouche Island			Point Helen N3		
	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	1.00	1.55	10	0.00	0.00	10
Alaria spp.	0.00	0.00	10	0.05	0.16	10
Ceramium spp.	0.00	0.00	10	0.05	0.16	10
Encrusting brown algae	8.85	8.49	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	9
Endozoic green algae	0.00	0.00	10	0.05	0.16	10
Enteromorpha intestinalis	0.65	1.03	10	1.40	2.38	10
Enteromorpha linza	0.00	0.00	10	6.15	6.84	10
Enteromorpha prolifera	1.50	1.58	10	0.10	0.32	10
Filamentous red algae	0.00	0.00	10	0.05	0.16	10
Fucus gardneri	0.60	0.91	10	0.15	0.34	10
Fucus gardneri (sporelings)	0.15	0.24	10	0.00	0.00	10
Hildenbrandia rubra	0.00	0.00	10	0.05	0.16	10
Iridaea heterocarpa	0.00	0.00	10	0.10	0.21	10
Laminaria groenlandica	0.00	0.00	10	0.80	1.75	10
Laminaria saccharina	0.00	0.00	10	0.90	1.91	10
Leathesia difformis	0.45	0.28	10	0.45	0.28	10
Mastocarpus papillatus	0.50	0.33	10	0.60	1.90	10
Neorhodomela larix	0.00	0.00	10	0.10	0.21	10
Palmaria callophylloides	0.15	0.24	10	0.00	0.00	10
Palmaria hecatensis	0.10	0.21	10	0.00	0.00	10
Pilayella littoralis	0.10	0.32	10	0.00	0.00	10
Porphyra spp.	0.00	0.00	10	0.05	0.16	10
Ralfsia spp.	0.00	0.00	10	8.50	5.30	10
Neorhodomela oregonae	0.15	0.34	10	0.00	0.00	10
Scytoniphon lomentaria	2.30	2.94	10	3.20	4.41	10
Ulva/Ulvularia spp.	0.75	0.49	10	0.00	0.00	10
Palmaria mollis	0.00	0.00	10	0.40	0.39	10
Analipus japonicus	0.00	0.00	10	0.20	0.42	10
Eudesme virescens	0.00	0.00	10	0.25	0.26	10
Kornmannia leptoderma	0.00	0.00	10	0.50	1.58	10
Monostroma grevillei	0.00	0.00	10	0.50	0.71	10
Tokidadendron kuriensis	0.00	0.00	10	0.05	0.16	10
Cymathere triplicata	0.00	0.00	10	7.50	16.87	10
Dictyosiphon foeniculaceus	1.50	1.76	10	6.85	7.27	10
Petalonia fascia	0.00	0.00	10	1.00	1.53	10
Chordaria flagelliformis	0.00	0.00	10	2.40	2.90	10
Acrosiphonia arcta	0.00	0.00	10	3.70	5.16	10
Ulva fenestrata	0.00	0.00	10	1.90	1.45	10
Laminaria yezoensis	0.00	0.00	10	1.00	3.16	10
Polysiphonia urceolata	0.00	0.00	10	1.50	3.37	10
Costaria costata	0.00	0.00	10	5.40	6.72	10

Table C-2-3 (continued).

Taxon	NE Latouche Island			Point Helen N3		
	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (%)	0.10	0.21	10	0.00	0.00	10
Balanus glandula (%)	0.05	0.16	10	0.00	0.00	10
Chthamalus dalli (%)	1.00	1.08	10	0.00	0.00	10
Encrusting bryozoan (%)	0.25	0.26	10	1.15	0.94	10
Mytilus edulis (%)	0.06	0.16	10	0.05	0.16	10
Mytilus edulis (% spat)	0.10	0.21	10	0.00	0.00	10
Semibalanus balanoides (%)	0.40	0.21	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.35	0.24	10	3.90	5.80	10
Scrupocellaria sp. (%)	0.00	0.00	10	0.35	0.41	10
Balanus/Semibalanus spp. (% set)	0.05	0.16	10	0.00	0.00	10
Hydroids unid. (%)	0.00	0.00	10	0.05	0.16	10
Musculus spp. (% spat)	0.00	0.00	10	0.45	0.16	10
Colonial tunicate (%)	0.00	0.00	10	0.35	0.53	10
Lacuna spp.	0.40	0.70	10	0.00	0.00	10
Littorina scutulata	1.40	1.65	10	0.00	0.00	10
Littorina sitkana	3.40	6.36	10	0.00	0.00	10
Lottia pelta	0.10	0.32	10	0.00	0.00	10
Lottia strigatella	10.10	7.78	10	0.00	0.00	10
Lottiidae, unid.	1.10	2.28	10	0.10	0.32	10
Lottiidae, unid. (juv.)	0.70	2.21	10	0.00	0.00	10
Musculus spp.	2.50	3.34	10	0.00	0.00	10
Pagurus hirsutiusculus	0.10	0.32	10	0.00	0.00	10
Pycnopodia helianthoides	0.00	0.00	10	0.20	0.63	10
Tectura scutum	0.30	0.48	10	0.00	0.00	10
Tectura testudinalis	5.80	4.66	10	0.00	0.00	10
Caprellidae	0.00	0.00	10	0.30	0.95	10
Haliclystus spp.	0.00	0.00	10	0.10	0.32	10
Balanus glandula (% dead)	0.05	0.16	10	0.00	0.00	10
Chthamalus dalli (% dead)	0.20	0.26	10	0.00	0.00	10
Spirorbidae (% dead)	0.15	0.24	10	0.00	0.00	10
Hydroida (% dead)	0.00	0.00	10	0.05	0.16	10
Boulder/cobble (%)	99.90	0.32	10	96.00	9.20	10
Gravel/sand (%)	0.10	0.32	10	4.05	9.18	10

Table C-3-1 Mixed-soft upper intertidal epibiota, July 1992.

Taxon	Crab Bay			Herring Bay			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Cladophora spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Filamentous green algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.60	1.34	5
Fucus gardneri	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	5.10	8.59	5
Fucus gardneri (sporelings)	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.10	0.22	5
Gloiopektis furcata	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Melanosiphon intestinalis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Potentilla ejedii grandis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	1.40	2.61	5
Puccinellia spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	2.30	2.28	5
Plantago maritima	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Sagina crassicaulis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	1.30	0.97	5
Draba spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Honkenya peploides	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Suaeda depressa	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	5.30	8.45	5
Carex spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Glaux maritima	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Balanus glandula (%)	0.40	0.22	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Balanus crenatus (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.20	0.27	5
Chthamalus dalli (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Chthamalus dalli (%)	0.00	0.00	5	0.20	0.27	5	0.00	0.00	5	0.10	0.22	5
Mytilus edulis (%)	0.40	0.22	5	0.30	0.45	5	0.10	0.22	5	0.00	0.00	5
Mytilus edulis (% spat)	0.20	0.27	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Semibalanus balanoides (%)	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Semibalanus balanoides (%)	0.20	0.27	5	0.60	0.22	5	3.10	3.05	5	0.50	0.00	5
Semibalanus cariosus (% set)	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Spirorbidae, unid. (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus/Semibalanus spp. (%)	0.00	0.00	5	0.10	0.22	5	0.10	0.22	5	0.00	0.00	5
Littorina scutulata	12.00	3.54	5	106.40	54.58	5	0.00	0.00	5	133.80	105.67	5
Littorina sitkana	19.00	8.80	5	33.80	27.24	5	16.20	13.07	5	3.60	3.65	5
Lottia pelta	0.00	0.00	5	0.00	0.00	5	0.40	0.55	5	0.00	0.00	5
Lottia strigatella	0.20	0.45	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Lottiidae, unid. (juv.)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Musculus spp.	1.00	1.73	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Tectura persona	0.20	0.45	5	2.00	2.00	5	0.60	1.34	5	0.60	0.89	5

Table C-3-1 (continued).

Taxon	Crab Bay			Herring Bay			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acarina	0.00	0.00	5	0.00	0.00	5	0.00	0.00	3	0.00	0.00	5
Littorina sitkana (juv.)	0.00	0.00	5	0.00	0.00	5	0.80	1.79	5	0.00	0.00	5
Balanus glandula (% dead)	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5	0.10	0.22	5
Balanus/Semibalanus spp. (% dead)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5
Mytilus edulis (dead)	0.50	0.50	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Semibalanus balanoides (% dead)	0.00	0.00	5	0.20	0.27	5	0.30	0.27	5	0.00	0.00	5
Boulder/cobble (%)	30.00	13.69	5	40.00	45.69	5	56.40	30.45	5	4.40	3.78	5
Gravel/sand (%)	70.00	13.69	5	60.00	45.69	5	43.60	30.45	5	95.60	3.78	5
Oil scale (primary)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Oil cover (%) (primary)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5

Table C-3-1 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Cladophora spp.	0.00	0.00	5	0.00	0.00	5	0.50	0.35	5
Filamentous green algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Fucus gardneri	0.00	0.00	5	0.00	0.00	5	1.60	1.52	5
Fucus gardneri (sporelings)	0.20	0.27	5	0.20	0.27	5	0.20	0.27	5
Gloiopektis furcata	0.00	0.00	5	0.20	0.27	5	0.00	0.00	5
Melanosiphon intestinalis	0.10	0.22	5	0.00	0.00	5	0.00	0.00	5
Potentilla ejedii grandis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Puccinellia spp.	0.00	0.00	5	0.00	0.00	5	3.00	4.24	5
Plantago maritima	0.00	0.00	5	0.00	0.00	5	0.80	1.30	5
Sagina crassicaulis	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Draba spp.	0.00	0.00	5	0.00	0.00	5	1.80	1.89	5
Honkenya peploides	0.00	0.00	5	0.00	0.00	5	56.20	40.66	5
Suaeda depressa	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Carex spp.	0.00	0.00	5	0.00	0.00	5	0.20	0.45	5
Glaux maritima	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus glandula (%)	0.10	0.22	5	0.40	0.42	5	0.00	0.00	5
Balanus crenatus (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Chthamalus dalli (% set)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Chthamalus dalli (%)	0.00	0.00	5	0.30	0.27	5	0.10	0.22	5
Mytilus edulis (%)	0.00	0.00	5	0.80	0.67	5	0.00	0.00	5
Mytilus edulis (% spat)	0.00	0.00	5	0.30	0.27	5	0.00	0.00	5
Semibalanus balanoides (%)	0.00	0.00	5	0.80	0.67	5	0.00	0.00	5
Semibalanus balanoides (%)	0.20	0.27	5	5.50	4.36	5	0.50	0.00	5
Semibalanus cariosus (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Spirorbidae, unid. (%)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Balanus/Semibalanus spp. (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Littorina scutulata	0.60	0.55	5	57.60	22.02	5	0.40	0.55	5
Littorina sitkana	4.60	4.72	5	196.00	64.25	5	8.80	9.88	5
Lottia pelta	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Lottia strigatella	0.00	0.00	5	1.00	1.00	5	0.00	0.00	5
Lottiidae, unid. (juv.)	0.00	0.00	5	5.60	12.52	5	0.00	0.00	5
Musculus spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Tectura persona	0.00	0.00	5	1.20	1.79	5	0.20	0.45	5

Table C-3-1 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acarina	0.00	0.00	3	0.00	0.00	5	0.00	0.00	5
Littorina sitkana (juv.)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Balanus glandula (% dead)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	5
Balanus/Semibalanus spp. (% dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Mytilus edulis (dead)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	5
Semibalanus balanoides (% dead)	0.00	0.00	5	0.20	0.27	5	0.10	0.22	5
Boulder/cobble (%)	0.00	0.00	5	85.60	6.84	5	57.60	44.79	5
Gravel/sand (%)	100.00	0.00	5	14.40	6.84	5	42.40	44.79	5
Oil scale (primary)	0.00	0.00	5	0.00	0.00	5	2.40	3.29	5
Oil cover (%) (primary)	0.00	0.00	5	0.00	0.00	5	4.10	8.89	5

Table C-3-2 Mixed-soft middle intertidal epibiota, July 1992.

Taxon	Block Island			Crab Bay			Mussel Beach South			NW Bay W Arm			Outside Bay Site 1		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.00	0.00	5	0.50	0.87	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Blue-green algae, spheroid	0.20	0.27	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.17	0.26	6
Blue-green algae, crust	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.05	0.16	10	0.17	0.41	6
Cladophora spp.	0.00	0.00	5	0.00	0.00	5	0.10	0.21	10	0.00	0.00	10	0.58	1.20	6
Cryptosiphonia woodii	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.05	0.16	10	0.00	0.00	6
Elachista fucicola	0.00	0.00	5	0.00	0.00	5	4.40	7.16	10	0.00	0.00	10	0.00	0.00	6
Encrusting brown algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Encrusting red algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Endozoic green algae	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.08	0.20	6
Enteromorpha intestinalis	0.00	0.00	5	0.00	0.00	5	0.70	0.48	10	0.00	0.00	10	0.00	0.00	6
Enteromorpha prolifera	0.00	0.00	5	0.00	0.00	5	0.30	0.63	10	0.00	0.00	10	0.00	0.00	6
Fucus gardneri	12.50	21.34	5	0.50	0.50	5	23.00	26.36	10	0.75	1.62	10	5.50	5.79	6
Fucus gardneri (sporelings)	0.00	0.00	5	0.00	0.00	5	0.15	0.24	10	0.00	0.00	10	0.17	0.26	6
Gloiopeeltis furcata	0.00	0.00	5	1.00	0.61	5	0.10	0.21	10	0.60	0.46	10	1.17	1.89	6
Halosaccion glandiforme	0.00	0.00	5	0.00	0.00	5	0.10	0.21	10	0.00	0.00	10	0.00	0.00	6
Hildenbrandia rubra	0.10	0.22	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Leathesia difformis	0.20	0.45	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.25	0.42	6
Mastocarpus papillatus	0.00	0.00	5	0.10	0.22	5	0.05	0.16	10	0.00	0.00	10	0.00	0.00	6
Pilayella littoralis	0.00	0.00	5	0.00	0.00	5	0.25	0.63	10	0.00	0.00	10	0.00	0.00	6
Neorhodomela oregonia	1.50	2.12	5	1.40	2.61	5	0.00	0.00	10	0.00	0.00	10	1.42	1.69	6
Scytoniphon lomentaria	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.08	0.20	6
Soranthera ulvoidea	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.17	0.26	6
Ulva/Ulvaria spp.	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10	0.00	0.00	6
Monostroma grevillei	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10	0.00	0.00	6
Porphyra fucicola	0.00	0.00	5	0.00	0.00	5	0.45	0.16	10	0.00	0.00	10	0.00	0.00	6
Bangia spp.	0.00	0.00	5	0.00	0.00	5	0.40	0.32	10	0.00	0.00	10	0.00	0.00	6
Ulothrix spp.	0.00	0.00	5	0.00	0.00	5	0.10	0.21	10	0.00	0.00	10	0.00	0.00	6
Acrosiphonia arcta	0.00	0.00	5	0.00	0.00	5	0.15	0.24	10	0.00	0.00	10	0.00	0.00	6
Neorhodomela (tidepool)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.50	1.22	6
Ulva fenestrata	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.08	0.20	6
Polysiphonia hendryi	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.33	0.82	6
Balanus glandula (%)	0.63	0.48	4	1.50	1.22	5	0.30	0.35	10	2.65	3.15	10	0.00	0.00	6
Balanus/Semibalan. spp (% set)	0.00	0.00	5	0.40	0.89	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6

Table C-3-2 (continued).

Taxon	Block Island			Crab Bay			Mussel Beach South			NW Bay W Arm			Outside Bay Site 1		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Chthamalus dalli</i> (% set)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.15	0.24	10	0.08	0.20	6
<i>Chthamalus dalli</i> (%)	0.00	0.00	5	0.20	0.27	5	0.25	0.26	10	0.35	0.34	10	0.42	0.38	6
Encrusting bryozoan (%)	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10	0.00	0.00	6
<i>Mytilus edulis</i> (%)	6.60	5.94	5	23.20	19.02	5	74.40	22.42	10	3.30	4.51	10	9.33	12.75	6
<i>Mytilus edulis</i> (% spat)	0.20	0.27	5	0.60	0.82	5	1.30	1.01	10	0.30	0.35	10	0.25	0.27	6
<i>Semibalanus balanoides</i> (%)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	10	0.65	0.75	10	0.17	0.26	6
<i>Semibalanus balanoides</i> (%)	3.00	4.76	4	1.70	1.99	5	0.00	0.00	10	0.55	0.60	10	16.00	12.57	6
<i>Semibalanus cariosus</i> (%)	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10	0.00	0.00	6
Spirorbidae, unid. (%)	0.00	0.00	5	0.00	0.00	5	0.05	0.16	10	0.00	0.00	10	0.00	0.00	6
Balanus/Semibalanus spp. (%)	0.00	0.00	5	0.00	0.00	5	0.20	0.26	10	0.00	0.00	10	0.00	0.00	6
Emplectonema gracile	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.90	1.66	10	0.00	0.00	6
Gammaridea, unid.	P	P	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10	0.00	0.00	6
<i>Gnorimosphaeroma oregonensis</i>	0.20	0.45	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
<i>Hemigrapsus oregonensis</i>	0.20	0.45	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
<i>Leptasterias hexactis</i>	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10	0.00	0.00	6
<i>Littorina scutulata</i>	58.40	28.19	5	371.20	179.05	5	1.70	3.65	10	425.20	208.34	10	29.67	14.65	6
<i>Littorina sitkana</i>	92.00	82.98	5	74.60	96.26	5	0.00	0.00	10	298.80	176.82	10	66.83	72.15	6
<i>Lottia pelta</i>	2.80	2.17	5	0.60	0.55	5	0.10	0.32	10	2.00	2.49	10	0.50	0.55	6
<i>Lottia strigatella</i>	3.20	1.30	5	2.20	2.68	5	0.00	0.00	10	0.60	1.90	10	0.00	0.00	6
Lottiidae, unid.	0.00	0.00	5	0.80	1.79	5	0.00	0.00	10	0.00	0.00	10	7.33	11.15	6
Lottiidae, unid. (juv.)	4.40	4.28	5	11.20	3.63	5	164.80	78.79	10	0.90	1.29	10	25.17	32.77	6
<i>Musculus</i> spp.	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
<i>Onchidella borealis</i>	0.00	0.00	5	0.00	0.00	5	0.80	1.75	10	0.00	0.00	10	0.00	0.00	6
<i>Pagurus hirsutiusculus</i>	2.20	2.28	5	0.00	0.00	5	3.40	3.84	10	0.50	1.58	10	1.00	0.89	6
<i>Pholis laeta</i>	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Tectura persona	2.60	2.61	5	0.00	0.00	5	0.00	0.00	10	7.10	4.65	10	2.50	5.21	6
Acarina	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10	0.00	0.00	6
Tectura testudinalis	0.00	0.00	5	0.00	0.00	5	0.10	0.32	10	0.00	0.00	10	0.00	0.00	6
<i>Lottia borealis</i>	0.00	0.00	5	0.20	0.45	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Balanus glandula (% dead)	0.10	0.22	5	0.30	0.45	5	0.00	0.00	10	0.90	0.94	10	0.00	0.00	6
<i>Chthamalus dalli</i> (% dead)	0.00	0.00	5	0.10	0.22	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
<i>Mytilus edulis</i> (dead)	5.20	4.76	5	6.40	2.97	5	23.70	11.63	10	1.30	2.45	10	3.33	1.86	6
<i>Semibalan. balanoides</i> (% dead)	0.50	0.87	5	1.30	0.67	5	0.00	0.00	10	0.20	0.26	10	0.33	0.26	6

Table C-3-2 (continued).

Taxon	Block Island			Crab Bay			Mussel Beach South			NW Bay W Arm			Outside Bay Site 1		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Boulder/cobble (%)	17.20	10.08	5	60.00	27.39	5	5.90	5.38	10	74.70	28.52	10	70.83	26.72	6
Gravel/sand (%)	82.80	10.08	5	40.00	27.39	5	88.10	17.62	10	23.80	28.92	10	29.17	26.72	6
Mud (%)	0.00	0.00	5	0.00	0.00	5	6.00	18.97	10	0.00	0.00	10	0.00	0.00	6
Oil scale (primary)	2.60	3.13	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Oil cover (%) (primary)	1.40	2.58	5	0.00	0.00	5	0.00	0.00	10	0.00	0.00	10	0.00	0.00	6
Rock (%)	0.00	0.00	5	0.00	0.00	5	0.00	0.00	10	1.50	4.74	10	0.00	0.00	6
Water (%)	0.00	0.00	5	0.80	1.10	5	0.00	0.00	10	0.10	0.32	10	2.50	6.12	6

Table C-3-2 (continued).

Taxon	Sheep Bay			Shelter Bay			Sleep Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.30	0.35	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, spheroid	0.55	0.16	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Blue-green algae, crust	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptosiphonia woodii	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Elachista fucicola	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting brown algae	0.00	0.00	10	0.00	0.00	10	2.00	2.66	10	0.00	0.00	10
Encrusting red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10
Endozoic green algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Enteromorpha intestinalis	0.20	0.26	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Enteromorpha prolifera	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Fucus gardneri	8.65	16.53	10	5.20	9.15	10	1.20	2.57	10	77.70	27.45	10
Fucus gardneri (sporelings)	0.20	0.26	10	0.40	0.21	10	0.00	0.00	10	0.75	0.49	10
Gloiopektis furcata	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Halosaccion glandiforme	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Hildenbrandia rubra	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Leathesia difformis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Mastocarpus papillatus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pilayella littoralis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela oregonia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Scytoniphon lomentaria	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Soranthera ulvoidea	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ulva/Ulvularia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Monostroma grevillei	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Porphyra fucicola	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Bangia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ulothrix spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Acrosiphonia arcta	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela (tidepool)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ulva fenestrata	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia hendryi	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus glandula (%)	0.45	0.28	10	0.95	0.93	10	0.05	0.16	10	0.00	0.00	10
Balanus/Semibalan. spp (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-2 (continued).

Taxon	Sheep Bay			Shelter Bay			Sleep Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Chthamalus dalli</i> (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Chthamalus dalli</i> (%)	0.20	0.26	10	0.10	0.21	10	0.20	0.26	10	0.00	0.00	10
Encrusting bryozoan (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mytilus edulis</i> (%)	3.40	1.43	10	1.75	2.78	10	1.25	1.16	10	14.80	11.01	10
<i>Mytilus edulis</i> (% spat)	0.00	0.00	10	0.35	0.63	10	1.65	2.66	10	0.35	0.47	10
<i>Semibalanus balanoides</i> (%)	0.40	0.21	10	0.25	0.35	10	0.75	0.49	10	0.70	0.26	10
<i>Semibalanus balanoides</i> (%)	8.20	5.03	10	0.95	1.44	10	2.80	2.76	10	5.60	2.32	10
<i>Semibalanus cariosus</i> (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10
Balanus/Semibalanus spp. (%)	0.25	0.63	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Emplectonema gracile	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	7	0.00	0.00	9	0.00	0.00	9	0.00	0.00	8
<i>Gnorimosphaeroma oregonensis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
<i>Hemigrapsus oregonensis</i>	0.20	0.42	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Leptasterias hexactis	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Littorina scutulata</i>	126.30	101.53	10	44.40	61.69	10	149.40	129.16	10	98.80	64.42	10
<i>Littorina sitkana</i>	0.30	0.67	10	17.90	24.36	10	306.80	179.79	10	116.00	55.69	10
<i>Lottia pelta</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.70	1.16	10
<i>Lottia strigatella</i>	0.40	0.97	10	5.70	12.28	10	0.60	0.70	10	0.30	0.48	10
Lottiidae, unid.	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.10	0.32	10
Lottiidae, unid. (juv.)	0.00	0.00	10	5.20	10.72	10	0.70	2.21	10	0.00	0.00	10
<i>Musculus</i> spp.	0.00	0.00	10	0.00	0.00	10	0.30	0.48	10	0.00	0.00	10
<i>Onchidella borealis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pagurus hirsutusculus</i>	0.10	0.32	10	0.80	2.53	10	0.00	0.00	10	0.10	0.32	10
<i>Pholis laeta</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Tectura persona	1.30	1.49	10	0.80	1.75	10	0.00	0.00	10	0.00	0.00	10
Acarina	0.20	0.42	10	0.00	0.00	9	0.00	0.00	10	0.00	0.00	10
Tectura testudinalis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	4.20	6.11	10
<i>Lottia borealis</i>	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.60	0.97	10
<i>Balanus glandula</i> (% dead)	0.00	0.00	10	0.20	0.63	10	0.05	0.16	10	0.00	0.00	10
<i>Chthamalus dalli</i> (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mytilus edulis</i> (dead)	1.50	1.51	10	0.90	1.45	10	0.00	0.00	10	1.80	1.32	10
Semibalan. balanoides (% dead)	0.20	0.26	10	0.30	0.95	10	0.10	0.21	10	0.20	0.26	10

Table C-3-2 (continued).

Taxon	Sheep Bay			Shelter Bay			Sleep Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Boulder/cobble (%)	1.00	3.16	10	7.10	15.78	10	58.00	21.63	10	17.60	17.00	10
Gravel/sand (%)	99.00	3.16	10	92.90	15.78	10	42.00	21.63	10	82.40	17.00	10
Mud (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil scale (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Rock (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Water (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 Mixed-soft lower intertidal epibiota, July 1992.

Taxon	Block Island			Crab Bay			Herring Bay			Ingot Island		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.00	0.00	10	44.95	33.48	10	52.60	37.65	10	0.00	0.00	10
Articulated coralline alga	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, crust	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.50	0.58	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	10	0.40	0.84	10	0.00	0.00	10
Corallina spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Cryptosiphonia woodii	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Desmarestia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dictyosiphon spp.	0.00	0.00	10	0.00	0.00	10	21.70	29.83	10	0.00	0.00	10
Encrusting brown algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting green algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Endozoic green algae	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Enteromorpha intestinalis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Enteromorpha linza	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Enteromorpha prolifera	0.00	0.00	10	0.00	0.00	10	0.55	1.57	10	0.00	0.00	10
Filamentous red algae	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Fucus gardneri	2.30	6.29	10	4.35	3.62	10	7.60	8.17	10	0.00	0.00	10
Fucus gardneri (sporelings)	0.00	0.00	10	0.45	0.16	10	0.10	0.21	10	0.00	0.00	10
Gloiopektis furcata	0.05	0.16	10	0.05	0.16	10	0.00	0.00	10	0.60	0.32	10
Halosaccion glandiforme	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Hildenbrandia rubra	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10	0.25	0.63	10
Iridaea heterocarpa	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Laminaria saccharina	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Leathesia difformis	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.15	0.24	10
Mastocarpus papillatus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Melanosiphon intestinalis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela larix	0.20	0.26	10	0.00	0.00	10	0.25	0.63	10	0.00	0.00	10
Odonthalia floccosa	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria callophyloides	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria hecatensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Phycodrys spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pilayella littoralis	0.30	0.67	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Block Island			Crab Bay			Herring Bay			Ingot Island		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Polysiphonia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Porphyra spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pterosiphonia bipinnata	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
Ralfsia fungiformis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ralfsia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	2.25	4.13	10
Rhodoglossum/Mastocarpus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela oregonae	1.10	3.13	10	18.50	24.91	10	0.00	0.00	10	0.00	0.00	10
Scytoniphon lomentaria	0.00	0.00	10	0.25	0.42	10	0.00	0.00	10	0.20	0.63	10
Ulva/Ulvaria spp.	0.00	0.00	10	1.10	0.97	10	0.10	0.32	10	0.00	0.00	10
Zostera marina	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Punctaria spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria mollis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Petalonia fascia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Eudesme virescens	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Monostroma grevillei	0.00	0.00	10	0.00	0.00	10	0.15	0.34	10	0.05	0.16	10
Ulothrix spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia/Pterosiphonia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dumontia contorta	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dictyosiphon foeniculaceus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Ectocarpus siliculosus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chordaria flagelliformis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Callothrix spp.	0.30	0.35	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela (tidepool)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	21.40	27.07	10
Ulya fenestrata	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Laminaria yezoensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia pacifica	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia hendryi	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Rhizoclonium implexum	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Endozoic red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus crenatus (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus glandula (%)	0.30	0.26	10	0.80	0.63	10	0.00	0.00	10	0.00	0.00	10
Balanus rostratus (%)	0.00	0.00	10	0.00	0.00	10	0.15	0.24	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Block Island			Crab Bay			Herring Bay			Ingot Island		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus glandula (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.15	0.24	10	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10
Chthamalus dalli (% set)	0.15	0.24	10	0.00	0.00	10	0.00	0.00	10	0.15	0.24	10
Chthamalus dalli (%)	0.35	0.34	10	0.25	0.26	10	0.00	0.00	10	0.50	0.24	10
Encrusting bryozoan (%)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Halichondria panicea (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Mytilus edulis (%)	5.15	8.35	10	4.40	3.03	10	1.10	1.17	10	0.00	0.00	10
Mytilus edulis (% spat)	0.10	0.21	10	2.20	3.18	10	6.15	6.59	10	0.45	0.28	10
Nucella spp. (% eggs)	0.05	0.16	10	0.10	0.21	10	0.00	0.00	10	0.05	0.16	10
Semibalanus balanoides (% set)	0.00	0.00	10	0.15	0.24	10	0.05	0.16	10	0.05	0.16	10
Semibalanus balanoides (%)	0.15	0.24	10	0.20	0.26	10	0.10	0.21	10	0.10	0.21	10
Semibalanus cariosus (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.15	0.24	10
Semibalanus cariosus (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.05	0.16	10	0.00	0.00	10	0.30	0.26	10	0.05	0.16	10
Balanus/Semibalanus spp., (% set)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Littorina spp., eggs (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Musculus spp. (% spat)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Anthopleura artemisia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Buccinum baeri	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10
Cancer magister	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cancer oregonensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Clinocottus acuticeps	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Cryptobranchia concentrica	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	7	0.00	0.00	9	0.00	0.00	6	0.00	0.00	3
Gastropoda, unid.	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10	0.00	0.00	10
Gnorimosphaeroma oregonensis	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	2.20	2.15	10
Hemigrapsus oregonensis	1.10	1.37	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Hiatella arctica	0.00	0.00	10	0.00	0.00	10	0.70	1.06	10	0.10	0.32	10
Lacuna spp.	0.00	0.00	10	0.10	0.32	10	3.40	3.72	10	0.00	0.00	10
Lacuna spp. (set)	0.00	0.00	10	0.00	0.00	10	243.20	337.41	5	0.00	0.00	10
Leptasterias hexactis	0.40	0.70	10	0.00	0.00	10	0.60	0.84	10	0.30	0.67	10
Leptasterias spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Littorina scutulata	14.70	33.05	10	167.00	110.04	10	4.50	5.74	10	29.20	35.08	10

Table C-3-3 (continued).

Taxon	Block Island			Crab Bay			Herring Bay			Ingot Island		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Littorina sitkana</i>	11.50	28.82	10	56.60	21.46	10	0.30	0.67	10	42.10	48.18	10
<i>Margarites pupillus</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Mopalia</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Musculus</i> spp.	0.00	0.00	10	0.00	0.00	10	124.80	226.95	5	0.00	0.00	10
<i>Nemertea</i> , unid.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nucella lamellosa</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
<i>Nucella lima</i>	0.00	0.00	10	1.60	3.03	10	0.10	0.32	10	2.20	2.15	10
<i>Pagurus beringanus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.90	1.37	10
<i>Pagurus granosimanus</i>	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pagurus hirsutiusculus</i>	3.20	3.16	10	0.40	0.70	10	0.00	0.00	10	19.80	21.24	10
<i>Paranemertes peregrina</i>	0.00	0.00	10	0.20	0.42	10	0.10	0.32	10	0.00	0.00	10
<i>Pentidotea wosnesenskii</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.50	0.71	10
<i>Pholidae/Stichaeidae</i>	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pholis ornata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10
<i>Pisaster ochraceus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Protorthaca staminea</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
<i>Pycnopodia helianthoides</i>	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10
<i>Schizoplax</i> spp.	0.40	0.52	10	0.00	0.00	10	1.80	3.74	10	0.00	0.00	10
<i>Searlesia dira</i>	2.20	1.99	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Strongylocentrotus droebachiensis</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Tectura scitum</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Telmessus cheiragonus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Tonicella lineata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Littorina sitkana</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	21.70	34.88	10
<i>Littorina scutulata</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	30.40	69.38	10
<i>Nereis vexillifera</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Tectura testudinalis</i>	7.70	5.23	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mopalia lignosa</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Lottia borealis</i>	0.20	0.42	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mytilus</i> spp. (bearded)	0.35	0.41	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Platyhelminthes</i> (unid. gray)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
<i>Fucus gardneri</i> (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Block Island			Crab Bay			Herring Bay			Ingot Island		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (% dead)	0.00	0.00	10	0.20	0.26	10	0.05	0.16	10	0.10	0.21	10
Spirorbidae (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting bryozoan (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus rostratus (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Boulder/cobble (%)	16.60	8.69	10	47.20	20.72	10	6.60	7.28	10	37.50	16.03	10
Gravel/sand (%)	83.40	8.69	10	52.00	19.32	10	93.40	7.28	10	62.50	16.03	10
Mud (%)	0.00	0.00	10	0.80	2.53	10	0.00	0.00	10	0.00	0.00	10
Oil scale (primary)	0.20	0.42	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil cover (%) (primary)	1.05	3.15	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Water (%)	10.50	20.20	10	0.00	0.00	10	0.00	0.00	10	53.30	40.66	10
Otter feeding pits (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Mussel Beach South			NW Bay W Arm			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	8.15	6.94	10	0.15	0.24	10	0.00	0.00	10	0.30	0.42	10
Articulated coralline alga	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.25	0.26	10
Blue-green algae, crust	0.10	0.21	10	0.15	0.24	10	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Corallina spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptosiphonia woodii	0.35	0.67	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Desmarestia spp.	2.50	7.91	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dictyosiphon spp.	0.75	1.62	10	0.00	0.00	10	0.75	1.53	10	0.00	0.00	10
Encrusting brown algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Encrusting green algae	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Encrusting red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Endozoic green algae	0.00	0.00	10	0.00	0.00	10	0.50	0.00	10	0.05	0.16	10
Enteromorpha intestinalis	1.15	1.68	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Enteromorpha linza	0.15	0.34	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Enteromorpha prolifera	3.30	6.05	10	0.00	0.00	10	15.25	21.26	10	0.20	0.42	10
Filamentous red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Fucus gardneri	26.30	19.36	10	5.10	5.60	10	21.30	25.25	10	0.20	0.35	10
Fucus gardneri (sporelings)	0.20	0.26	10	0.05	0.16	10	0.05	0.16	10	0.20	0.26	10
Gloiopektis furcata	0.00	0.00	10	0.50	0.58	10	0.00	0.00	10	0.00	0.00	10
Halosaccion glandiforme	1.70	2.03	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Hildenbrandia rubra	0.05	0.16	10	0.20	0.42	10	0.10	0.21	10	0.00	0.00	10
Iridaea heterocarpa	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Laminaria saccharina	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Leathesia difformis	0.25	0.26	10	0.05	0.16	10	0.30	0.26	10	0.25	0.26	10
Mastocarpus papillatus	0.50	1.25	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Melanosiphon intestinalis	0.15	0.34	10	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10
Neorhodomela larix	0.20	0.35	10	0.05	0.16	10	0.00	0.00	10	0.45	1.26	10
Odonthalia floccosa	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria callophyloides	0.40	0.84	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria hecatensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Phycodrys spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pilayella littoralis	0.30	0.35	10	0.20	0.42	10	0.75	1.55	10	0.35	0.63	10

Table C-3-3 (continued).

Taxon	Mussel Beach South			NW Bay W Arm			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Polysiphonia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Porphyra spp.	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Pterosiphonia bipinnata	0.35	0.94	10	0.00	0.00	10	3.15	7.70	10	0.00	0.00	10
Ralfsia fungiformis	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Ralfsia spp.	1.20	1.09	10	0.00	0.00	10	0.40	0.61	10	0.00	0.00	10
Rhodoglossum/Mastocarpus	0.20	0.63	10	0.00	0.00	10	0.15	0.34	10	0.00	0.00	10
Neorhodomela oregonia	0.05	0.16	10	0.20	0.42	10	0.00	0.00	10	2.80	2.03	10
Scytoniphon lomentaria	0.30	0.35	10	0.00	0.00	10	0.65	1.23	10	0.00	0.00	10
Ulva/Ulvaria spp.	0.30	0.67	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Zostera marina	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Punctaria spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Palmaria mollis	0.20	0.35	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Petalonia fascia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Eudesme virescens	0.00	0.00	10	0.00	0.00	10	0.65	0.63	10	0.00	0.00	10
Monostroma revillei	4.15	5.13	10	0.05	0.16	10	0.80	1.87	10	0.00	0.00	10
Ulothrix spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia/Pterosiphonia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.40	0.52	10
Neorhodomela spp.	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Dumontia contorta	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dictyosiphon foeniculaceus	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	2.20	3.14	10
Ectocarpus siliculosus	0.00	0.00	10	0.00	0.00	10	0.20	0.35	10	0.00	0.00	10
Chordaria flagelliformis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10
Callothrix spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela (tidepool)	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Ulva fenestrata	0.00	0.00	10	0.00	0.00	10	1.75	2.64	10	0.00	0.00	10
Laminaria yezoensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia pacifica	1.35	2.38	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Polysiphonia hendryi	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Rhizoclonium implexum	0.00	0.00	10	0.00	0.00	10	6.55	14.01	10	0.00	0.00	10
Endozoic red algae	0.00	0.00	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Balanus crenatus (%)	2.30	2.57	10	0.00	0.00	10	0.45	0.37	10	0.10	0.21	10
Balanus glandula (%)	0.05	0.16	10	0.45	0.16	10	0.00	0.00	10	0.15	0.24	10
Balanus rostratus (%)	0.35	0.67	10	0.00	0.00	10	0.15	0.24	10	0.30	0.26	10

Table C-3-3 (continued).

Taxon	Mussel Beach South			NW Bay W Arm			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% set)	0.80	1.18	10	0.00	0.00	10	0.30	0.35	10	0.00	0.00	10
Balanus glandula (% set)	0.00	0.00	10	0.15	0.34	10	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% set)	0.00	0.00	10	0.10	0.21	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (%)	0.10	0.21	10	0.35	0.34	10	0.00	0.00	10	0.00	0.00	10
Encrusting bryozoan (%)	0.55	0.44	10	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Halichondria panicea (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Mytilus edulis (%)	0.05	0.16	10	7.25	9.58	10	0.25	0.26	10	3.90	3.35	10
Mytilus edulis (% spat)	0.40	0.21	10	1.05	1.17	10	0.35	0.24	10	0.25	0.26	10
Nucella spp. (% eggs)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (% set)	0.00	0.00	10	0.35	0.24	10	0.00	0.00	10	0.15	0.24	10
Semibalanus balanoides (%)	0.05	0.16	10	0.45	0.28	10	0.05	0.16	10	0.20	0.26	10
Semibalanus cariosus (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus cariosus (%)	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.75	0.86	10	0.15	0.24	10	0.20	0.26	10	0.00	0.00	10
Balanus/Semibalanus spp., (% set)	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.05	0.16	10
Littorina spp., eggs (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Musculus spp. (% spat)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Anthopleura artemisia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Buccinum baeri	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cancer magister	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cancer oregonensis	0.80	1.55	10	0.00	0.00	10	0.20	0.42	10	0.00	0.00	10
Clinocottus acuticeps	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptobranchia concentrica	0.20	0.63	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	4	0.00	0.00	4	0.13	0.25	4	0.00	0.00	10
Gastropoda, unid.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gnorimosphaeroma oregonensis	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	9
Hemigrapsus oregonensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.60	0.97	10
Hiatella arctica	0.00	0.00	10	0.00	0.00	10	0.70	0.95	10	0.00	0.00	10
Lacuna spp.	4.60	5.30	10	0.00	0.00	10	2.70	6.29	10	0.00	0.00	10
Lacuna spp. (set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.30	0.48	10
Leptasterias hexactis	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Leptasterias spp.	0.00	0.00	10	0.00	0.00	10	0.40	0.70	10	0.00	0.00	10
Littorina scutulata	0.80	1.75	10	686.00	149.35	10	0.10	0.32	10	238.10	138.47	10

Table C-3-3 (continued).

Taxon	Mussel Beach South			NW Bay W Arm			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Littorina sitkana</i>	0.10	0.32	10	2.30	4.90	10	0.00	0.00	10	1.20	1.32	10
<i>Margarites pupillus</i>	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10	0.00	0.00	10
<i>Mopalia</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Musculus</i> spp.	0.20	0.63	10	0.00	0.00	10	0.35	0.24	10	0.00	0.00	10
<i>Nemertea</i> , unid.	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10	0.00	0.00	10
<i>Nucella lamellosa</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nucella lima</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.30	0.67	10
<i>Pagurus beringanus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10
<i>Pagurus granosimanus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
<i>Pagurus hirsutiusculus</i>	2.30	2.31	10	2.10	2.69	10	1.30	1.25	10	1.30	1.25	10
<i>Paranemertes peregrina</i>	0.00	0.00	10	0.30	0.48	10	0.00	0.00	10	0.10	0.32	10
<i>Pentidotea wosnessenskii</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pholidae/Stichaeidae</i>	0.00	0.00	10	0.00	0.00	10	0.80	0.79	10	0.00	0.00	10
<i>Pholis ornata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pisaster ochraceus</i>	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Protobrachia staminea</i>	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pycnopodia helianthoides</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Schizoplax</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Searlesia dira</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Strongylocentrotus droebachiensis</i>	0.20	0.42	10	0.00	0.00	10	0.60	1.07	10	0.00	0.00	10
<i>Tectura scutum</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
<i>Telmessus cheiragonus</i>	0.00	0.00	10	0.00	0.00	10	0.30	0.48	10	0.00	0.00	10
<i>Tonicella lineata</i>	0.00	0.00	10	0.00	0.00	10	0.80	0.79	10	0.00	0.00	10
<i>Littorina sitkana</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Littorina scutulata</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nereis vexillosa</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10	0.00	0.00	10
<i>Tectura testudinalis</i>	0.50	0.97	10	0.30	0.67	10	6.20	4.37	10	0.10	0.32	10
<i>Mopalia lignosa</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Lottia borealis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mytilus</i> spp. (bearded)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Platyhelminthes</i> (unid. gray)	0.00	0.00	10	0.00	0.00	10	0.20	0.63	10	0.00	0.00	10
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Fucus gardneri</i> (dead)	0.00	0.00	10	0.15	0.34	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Mussel Beach South			NW Bay W Arm			Outside Bay Site 1			Sheep Bay		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% dead)	0.30	0.26	10	0.00	0.00	10	0.20	0.26	10	0.05	0.16	10
Semibalanus balanoides (% dead)	0.00	0.00	10	0.45	0.16	10	0.05	0.16	10	0.20	0.35	10
Spirorbidae (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting bryozoan (% dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus rostratus (% dead)	0.10	0.21	10	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10
Boulder/cobble (%)	23.70	19.15	10	57.30	27.66	10	21.30	21.35	10	13.10	30.69	10
Gravel/sand (%)	76.30	19.15	10	42.70	27.66	10	78.70	21.35	10	62.10	38.19	10
Mud (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	16.80	23.10	10
Oil scale (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Water (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	8.00	17.51	10
Otter feeding pits (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Acrosiphonia spp.	0.85	1.16	10	1.20	1.78	10	0.00	0.00	10
Articulated coralline alga	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, spheroid	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Blue-green algae, crust	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cladophora spp.	0.00	0.00	10	0.00	0.00	10	78.80	17.67	10
Corallina spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptosiphonia woodii	0.55	1.23	10	1.80	3.15	10	0.00	0.00	10
Desmarestia spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Dictyosiphon spp.	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Encrusting brown algae	0.00	0.00	10	4.00	5.23	10	0.00	0.00	10
Encrusting coralline algae	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Encrusting green algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting red algae	0.00	0.00	10	0.00	0.00	10	0.10	0.21	10
Endozoic green algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Enteromorpha intestinalis	0.10	0.32	10	0.00	0.00	10	0.15	0.34	10
Enteromorpha linza	0.00	0.00	10	0.25	0.35	10	0.00	0.00	10
Enteromorpha prolifera	0.00	0.00	10	0.10	0.32	10	3.30	5.06	10
Filamentous red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Fucus gardneri	1.55	2.19	10	2.05	4.19	10	13.40	8.51	10
Fucus gardneri (sporelings)	0.35	0.24	10	0.00	0.00	10	0.25	0.26	10
Gloiopektis furcata	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Halosaccion glandiforme	0.10	0.21	10	0.25	0.26	10	0.00	0.00	10
Hildenbrandia rubra	0.70	0.86	10	0.00	0.00	10	0.00	0.00	10
Iridaea heterocarpa	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Laminaria saccharina	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Leathesia difformis	0.30	0.26	10	0.20	0.35	10	0.00	0.00	10
Mastocarpus papillatus	0.00	0.00	10	0.00	0.00	10	0.20	0.42	10
Melanosiphon intestinalis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Neorhodomela larix	0.60	1.58	10	0.00	0.00	10	0.00	0.00	10
Odonthalia floccosa	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Palmaria callophyloides	0.00	0.00	10	1.55	1.92	10	0.30	0.35	10
Palmaria hecatensis	0.00	0.00	10	4.20	6.68	10	0.00	0.00	10
Phycodrys spp.	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Pilayella littoralis	0.05	0.16	10	0.10	0.21	10	47.00	29.83	10

Table C-3-3 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Polysiphonia</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Porphyra</i> spp.	0.00	0.00	10	0.20	0.35	10	0.00	0.00	10
<i>Pterosiphonia bipinnata</i>	0.00	0.00	10	0.00	0.00	10	1.10	1.49	10
<i>Ralfsia fungiformis</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Ralfsia</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Rhodoglossum/Mastocarpus</i>	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
<i>Neorhodomela oregonia</i>	2.95	2.78	10	0.00	0.00	10	0.10	0.21	10
<i>Scytoniphon lomentaria</i>	0.60	0.32	10	1.45	1.67	10	0.00	0.00	10
<i>Ulva/Ulvaria</i> spp.	1.10	3.14	10	0.00	0.00	10	9.90	5.70	10
<i>Zostera marina</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Punctaria</i> spp.	0.00	0.00	10	0.60	0.61	10	0.00	0.00	10
<i>Palmaria mollis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Petalonia fascia</i>	0.00	0.00	10	0.20	0.35	10	0.00	0.00	10
<i>Eudesme virescens</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Monostroma grevillei</i>	0.00	0.00	10	0.40	0.97	10	0.00	0.00	10
<i>Ulothrix</i> spp.	0.00	0.00	10	0.00	0.00	10	0.50	0.00	10
<i>Polysiphonia/Pterosiphonia</i>	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
<i>Neorhodomela</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Dumontia contorta</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Dictyosiphon foeniculaceus</i>	2.40	4.56	10	1.15	1.55	10	1.10	0.94	10
<i>Ectocarpus siliculosus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Chordaria flagelliformis</i>	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Callothrix</i> spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Neorhodomela</i> (tidepool)	0.00	0.00	10	4.75	8.18	10	0.00	0.00	10
<i>Ulva fenestrata</i>	0.00	0.00	10	1.75	1.64	10	0.00	0.00	10
<i>Laminaria yezoensis</i>	0.00	0.00	10	0.50	1.27	10	0.00	0.00	10
<i>Polysiphonia pacifica</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Polysiphonia hendryi</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Rhizoclonium implexum</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Endozoic red algae	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus crenatus (%)	1.60	1.82	10	0.15	0.24	10	0.10	0.21	10
Balanus glandula (%)	0.00	0.00	10	0.05	0.16	10	0.05	0.16	10
Balanus rostratus (%)	0.65	0.53	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% set)	0.10	0.21	10	0.00	0.00	10	0.05	0.16	10
Balanus glandula (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Balanus/Semibalanus spp. (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Chthamalus dalli (%)	0.00	0.00	10	0.05	0.16	10	0.00	0.00	10
Encrusting bryozoan (%)	0.00	0.00	10	0.05	0.16	10	0.05	0.16	10
Halichondria panicea (%)	0.00	0.00	10	0.00	0.00	10	0.50	0.33	10
Mytilus edulis (%)	1.55	0.76	10	0.40	0.39	10	1.00	0.78	10
Mytilus edulis (% spat)	1.95	1.74	10	0.70	0.82	10	0.45	0.16	10
Nucella spp. (% eggs)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus balanoides (% set)	0.55	0.28	10	0.05	0.16	10	0.05	0.16	10
Semibalanus balanoides (%)	1.45	1.66	10	0.00	0.00	10	0.20	0.26	10
Semibalanus cariosus (% set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Semibalanus cariosus (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Spirorbidae, unid. (%)	0.05	0.16	10	0.20	0.26	10	0.40	0.21	10
Balanus/Semibalanus spp., (% set)	0.05	0.16	10	0.05	0.16	10	0.35	0.63	10
Littorina spp., eggs (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Musculus spp. (% spat)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Anthopleura artemisia	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Buccinum baeri	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cancer magister	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
Cancer oregonensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Clinocottus acuticeps	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Cryptobranchia concentrica	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gammaridea, unid.	0.00	0.00	2	0.00	0.00	6	0.00	0.00	2
Gastropoda, unid.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Gnorimosphaeroma oregonensis	0.30	0.67	10	0.30	0.48	10	0.00	0.00	10
Hemigrapsus oregonensis	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Hiatella arctica	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Lacuna spp.	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
Lacuna spp. (set)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Leptasterias hexactis	0.00	0.00	10	0.10	0.32	10	0.60	0.84	10
Leptasterias spp.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Littorina scutulata	86.90	39.02	10	69.50	42.06	10	0.20	0.42	10

Table C-3-3 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
<i>Littorina sitkana</i>	14.70	8.50	10	118.70	231.39	10	0.00	0.00	10
<i>Margarites pupillus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mopalia</i> spp.	0.00	0.00	10	0.10	0.32	10	0.00	0.00	10
<i>Musculus</i> spp.	0.00	0.00	10	1.60	1.71	10	1.80	1.69	10
<i>Nemertea</i> , unid.	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nucella lamellosa</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nucella lima</i>	0.00	0.00	10	0.00	0.00	10	0.10	0.32	10
<i>Pagurus beringanus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pagurus granosimanus</i>	0.00	0.00	10	0.00	0.00	10	0.80	1.23	10
<i>Pagurus hirsutusculus</i>	1.30	1.42	10	0.80	1.03	10	1.30	2.50	10
<i>Paranemertes peregrina</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pentidotea wosnesenskii</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pholidae/Stichaeidae</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pholis ornata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pisaster ochraceus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Protobrachia staminea</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Pycnopodia helianthoides</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Schizoplax</i> spp.	0.00	0.00	10	0.00	0.00	10	0.30	0.67	10
<i>Searlesia dira</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Strongylocentrotus droebachiensis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Tectura scutum</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Telmessus cheiragonus</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Tonicella lineata</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Littorina sitkana</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Littorina scutulata</i> (juv.)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Nereis vexillosa</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Tectura testudinalis</i>	0.70	0.82	10	2.80	2.49	10	0.00	0.00	10
<i>Mopalia lignosa</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Lottia borealis</i>	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Mytilus</i> spp. (bearded)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Platyhelminthes</i> (unid. gray)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Encrusting coralline algae (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
<i>Fucus gardneri</i> (dead)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10

Table C-3-3 (continued).

Taxon	Shelter Bay			Sleepy Bay			Snug Harbor		
	Mean	S.D.	No.	Mean	S.D.	No.	Mean	S.D.	No.
Balanus crenatus (% dead)	0.20	0.26	10	0.15	0.34	10	0.10	0.21	10
Semibalanus balanoides (% dead)	0.10	0.21	10	0.00	0.00	10	0.15	0.34	10
Spirorbidae (% dead)	0.00	0.00	10	2.30	3.33	10	0.00	0.00	10
Encrusting bryozoan (% dead)	0.00	0.00	10	0.55	0.69	10	0.00	0.00	10
Balanus rostratus (% dead)	0.05	0.16	10	0.00	0.00	10	0.00	0.00	10
Boulder/cobble (%)	19.80	18.15	10	62.40	34.99	10	59.50	26.40	10
Gravel/sand (%)	80.20	18.15	10	38.00	34.60	10	40.50	26.40	10
Mud (%)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil scale (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Oil cover (%) (primary)	0.00	0.00	10	0.00	0.00	10	0.00	0.00	10
Water (%)	27.70	32.07	10	0.00	0.00	10	0.00	0.00	10
Otter feeding pits (%)	0.00	0.00	10	0.00	0.00	10	7.00	22.14	10



## **APPENDIX D**



Table D-1 Complete listing of all specimens collected in core samples at selected sites in Prince William Sound, July 1992.

Taxon	Bainbridge Bight						Block Island						Crab Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Acarina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	5
Acmina catherina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allorchestes	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0
Allorchestes angustus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Alvania compacta	0	0	0	0	0	0	0	2	1	16	1	20	0	0	1	1	1	3
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampithoe	0	0	0	0	0	0	0	0	0	0	0	0	0	1	87	2	15	105
Ampithoe dellii	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Anthozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Anurida maritima	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Armandia brevis	0	0	0	0	0	0	1	0	3	1	0	5	0	0	0	0	0	0
Asabellides sibirica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ascidiacea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asellota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Astroidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barantolla americana	0	0	0	0	0	0	0	1	3	0	0	4	2	0	2	0	1	5
Bittium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boccardiella hamata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer magister	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer oregonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capitella capitata	0	0	0	0	0	0	0	0	0	1	1	2	0	1	0	0	0	1
Caprellidae	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Chiridota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chironomidae	0	0	0	0	1	1	0	0	0	0	0	0	1	2	32	13	4	52
Cingula	1	1	0	5	0	7	0	0	0	0	0	0	0	18	72	11	21	122
Cirratulidae	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Cirratulus cirratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirratulus spectabilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Clinocardium ciliatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Collisella pelta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

**Table D-1** (continued).

Table D-1 (continued).

Taxon	Bainbridge Bight						Block Island						Crab Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Lacuna	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	2	7
Lagunogammarus setosus	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0	0
Laophontidae	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0
Leitoscoloplos pugettensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lepidonotus squamatus	0	0	0	0	0	0	0	0	1	2	0	3	0	0	0	0	0	0
Leptochelia savignyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leptosynapta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Levinsenia gracilis	0	0	0	0	0	0	0	0	1	1	1	3	0	0	0	0	0	0
Littorina scutulata	4	2	5	2	3	16	0	0	2	2	14	18	0	6	76	18	19	119
Littorina sitkana	12	4	9	15	17	57	1	0	0	0	4	5	0	2	69	37	34	142
Lottiidae	0	0	0	0	0	0	3	1	7	8	1	20	1	1	4	1	4	11
Lumbrineris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma balthica	1	5	2	1	0	9	2	0	3	1	6	12	4	0	12	4	15	35
Macoma inquinata	0	0	0	0	0	0	9	19	14	18	0	60	0	0	0	1	0	1
Mactridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Margarites marginatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Melita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melita californica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mysella tumida	0	0	0	0	0	0	4	13	37	26	0	80	1	0	1	0	0	2
Naineris quadricuspida	0	0	0	0	0	0	0	0	0	17	0	17	0	0	0	0	0	0
Nematoda	1	3	6	7	5	22	1	0	66	6	26	99	6	2	50	22	5	85
Nemertea	0	0	0	0	1	1	2	6	2	8	14	32	3	10	12	16	4	45
Neoamphitrite robusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis	0	0	4	0	0	4	0	0	1	0	2	3	0	0	0	0	0	0
Nereis vexillosa	2	0	2	2	2	8	0	0	0	0	0	0	0	0	0	0	0	0
Nerillidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nucella lima	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	3
Nudibranchia	0	0	0	0	0	0	0	0	0	0	0	0	0	4	18	11	0	33
Odostomia	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0

Table D-1 (continued).

Taxon	Bainbridge Bight						Block Island						Crab Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Oligochaeta	31	22	17	39	59	168	9	10	92	18	42	171	86	113	121	69	13	402
Ophelia limacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orbiniella nuda	2	8	1	1	0	12	0	0	0	0	0	0	0	0	0	0	0	0
Owenia fusiformis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Oweniidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paguridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurus	0	0	0	1	0	1	0	2	4	0	1	7	2	0	2	0	2	6
Paramoera	4	3	2	10	2	21	0	0	0	0	0	0	0	0	0	0	0	0
Pectinaria	0	0	0	0	0	0	0	0	9	2	0	11	0	0	0	0	0	0
Pectinaria granulata	0	0	0	0	0	0	1	4	1	1	0	7	0	0	0	0	0	0
Pentidotea wosnesenskii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pherusa plumosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pholoe minuta	0	13	10	9	2	34	0	0	0	0	0	0	0	0	0	0	0	0
Phoronidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Podocopina	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	2	0	3
Polychaeta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polydora brachycephala	0	0	0	0	0	0	0	0	9	0	0	9	1	1	0	0	0	2
Polydora quadrilobata	0	0	0	0	0	0	0	0	0	1	1	1	3	0	0	2	0	2
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polyplacophora	0	0	0	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0
Pontogeneia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontogeneia ivanovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio cirrifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Prionospio steenstrupi	0	0	0	0	0	0	0	2	0	0	0	2	0	0	0	0	0	0
Protodorvillea gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Protothaca staminea	0	0	0	0	0	0	21	18	7	17	2	65	0	1	1	0	1	3
Pseudoscorpionida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pygospio elegans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Rhynchospio glutaea	0	0	0	0	0	0	0	0	0	2	2	0	4	0	0	0	0	0
Rissoidae	2	1	2	0	0	5	0	0	0	0	0	0	0	4	14	0	3	21
Saccocirrus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saccocirrus eroticus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saxidomus	0	0	0	0	0	0	0	2	4	2	0	8	0	0	0	0	0	0

Table D-1 (continued).

Taxon	Bainbridge Bight						Block Island						Crab Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Saxidomus gigantea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scolelepis squamatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos acmeceps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos armiger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerosyllis pirifera	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0
Spinulogammarus subcarinatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spio filicornis	0	0	0	0	0	0	0	5	5	8	0	18	0	0	1	0	0	1
Spionidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
Spirorbis	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Staphylinidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Stichaeidae	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Strongylocentrotus	0	0	0	0	0	0	1	0	1	1	0	3	0	0	0	0	0	0
Syllidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syllis elongata	0	0	0	0	0	0	0	2	2	30	0	34	0	0	0	0	0	0
Tellina modesta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tharyx multifilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbellaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turtonia minuta	0	0	0	0	0	0	0	0	0	0	0	0	2	3	722	219	272	1218
Valvifera	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Veneridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	70	74	92	131	112	479	60	100	338	225	121	844	123	190	1347	446	451	2557
Number of Taxa	15	15	16	16	12	27	16	17	36	31	19	50	16	19	32	22	28	46

Table D-1 (continued).

Taxon	Herring Bay						Mussel Beach						Northwest Bay West Arm					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Acarina	7	102	76	21	39	245	0	0	0	0	7	7	1	0	0	0	1	2
Acnira catherina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allorchestes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Allorchestes angustus	3	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Alvania compacta	27	4	23	31	3	88	0	0	4	4	14	22	4	3	8	0	0	15
Ampharetidae	0	0	0	0	0	0	0	0	0	4	15	19	0	0	0	0	0	0
Ampithoe	14	3	3	16	4	40	2	0	0	0	0	2	0	0	0	0	0	0
Ampithoe dellii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anurida maritima	0	0	0	0	0	0	0	0	0	4	4	8	0	1	1	0	0	2
Armandia brevis	1	1	1	0	0	3	0	16	0	4	1	21	0	0	0	0	0	0
Asabellides sibirica	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Asciidae	1	2	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0
Asellota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asteroidea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Barantolla americana	0	1	2	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0
Bittium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Boccardiella hamata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Cancer magister	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer oregonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Capitella capitata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Caprellidae	1	0	0	2	2	5	0	0	0	0	0	0	0	0	0	0	0	0
Chiridota	1	0	1	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0
Chironomidae	5	12	30	5	3	55	0	0	0	0	0	0	1	0	0	0	0	1
Cingula	141	83	58	133	33	448	0	0	0	0	0	0	0	0	0	0	0	0
Cirratulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirratulus cirratus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cirratulus spectabilis	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	0
Clinocardium ciliatum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Collisella pelta	0	0	0	1	0	1	1	0	1	0	0	2	0	0	0	0	0	0

Table D-1 (continued).

Taxon	Herring Bay						Mussel Beach						Northwest Bay West Arm					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Corophium	12	63	3	10	4	92	0	0	0	0	0	0	0	0	0	0	0	0
Corophium brevis	14	6	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Cottidae	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Cryptomya californica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumella vulgaris	49	48	47	13	21	178	0	0	1	0	0	1	0	2	2	0	0	4
Demospongiae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diosaccidae	0	0	0	7	0	7	0	0	0	0	0	0	0	0	0	0	0	0
Diplodonta aleutica	0	0	0	0	0	0	0	0	0	2	2	4	0	0	0	0	0	0
Diptera	3	0	0	0	0	3	0	1	0	0	0	1	0	0	0	0	0	0
Echinoida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Eteone	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	2	4
Eteone longa	8	0	4	8	1	21	8	7	13	8	1	37	0	0	0	0	0	0
Eteone spetsbergensis	0	7	0	0	0	7	0	0	0	0	0	0	1	0	1	1	0	3
Exogone gemmifera	2	0	0	1	0	3	0	0	0	3	0	3	0	0	0	0	0	0
Fabriciola berkeleyi	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0	0	0	0
Fartulum	30	0	0	1	0	31	0	0	3	16	11	30	0	2	2	1	1	6
Flabelligeridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gammaridea	0	0	0	0	0	0	0	0	1	0	2	3	0	0	0	0	1	1
Gammaroporeia alaskensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycera capitata	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
Glycinde picta	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Gnorimosphaeroma oregonensis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Golfingia procera	0	0	0	0	0	0	1	1	3	0	2	7	0	0	0	0	0	0
Goniadidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Harmothoe imbricata	0	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Harpacticoida	18	76	7	0	50	151	0	0	4	2	5	11	0	0	0	0	0	0
Harpacticus uniremis	2	0	174	157	151	484	0	1	5	3	4	13	0	0	1	0	0	1
Hemigrapsus oregonensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Hiatella arctica	0	0	1	7	0	8	0	0	1	0	0	1	7	13	8	13	11	52
Hydrozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ianiropsis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idotea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D-1 (continued).

Taxon	Herring Bay						Mussel Beach						Northwest Bay West Arm					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Lacuna	11	32	0	5	0	48	0	1	2	13	3	19	0	0	0	0	0	0
Lagunogammarus setosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laophontidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leitoscoloplos pugettensis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Lepidonotus squamatus	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Leptochelia savignyi	0	0	0	0	0	0	0	0	0	9	10	19	0	1	1	0	0	2
Leptosynapta	0	0	0	0	0	0	0	0	0	7	0	7	0	0	0	0	0	0
Levinsenia gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Littorina scutulata	1	8	0	1	4	14	1	1	0	0	0	2	9	56	13	10	16	104
Littorina sitkana	4	11	0	0	0	15	0	0	0	3	0	3	4	3	0	0	1	8
Lottiidae	1	0	0	0	0	1	0	0	0	1	0	1	15	25	26	2	6	74
Lumbrineris	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	1	1
Macoma	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0
Macoma balthica	11	10	10	12	0	43	0	0	0	0	0	0	0	0	0	0	0	0
Macoma inquinata	0	2	5	4	6	17	0	1	0	0	0	1	0	0	0	0	0	0
Mactridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Margarites marginatus	0	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Melita	0	0	0	0	0	0	0	3	2	0	1	6	0	0	0	0	0	0
Melita californica	0	0	0	0	0	0	0	0	0	22	0	22	0	0	0	0	0	0
Muscidae	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mysella tumida	0	1	0	34	13	48	13	25	14	20	18	90	0	1	0	0	1	2
Naineris quadricuspida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nematoda	54	101	256	93	74	578	43	36	82	34	43	238	9	3	1	0	2	15
Nemertea	3	0	3	218	117	341	4	12	0	9	8	33	2	3	0	0	5	10
Neoamphitrite robusta	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Nereis	0	0	0	1	1	2	0	3	0	2	0	5	1	0	0	0	0	1
Nereis vexillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nerillidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nucella lima	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Nudibranchia	9	3	8	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0
Odostomia	3	1	7	11	1	23	0	0	0	7	1	8	2	4	3	0	0	9

Table D-1 (continued).

Taxon	Herring Bay						Mussel Beach						Northwest Bay West Arm					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Oligochaeta	70	39	14	18	1	142	18	7	38	9	10	82	3	0	0	0	0	3
Ophelia limacina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Orbiniella nuda	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0
Owenia fusiformis	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Oweniidae	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Paguridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pagurus	0	0	0	0	0	0	3	5	1	0	2	11	0	0	0	0	0	0
Paramoera	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
Pectinaria	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pectinaria granulata	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Pentidotea wosnesenskii	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pherusa plumosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pholoe minuta	4	2	0	1	0	7	0	0	1	14	13	28	11	29	12	2	1	55
Phoronidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Podocopina	44	40	9	7	4	104	0	0	0	0	0	0	1	0	0	0	0	1
Polychaeta	0	0	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0
Polydora brachycephala	0	0	1	1	2	4	0	0	0	0	0	0	0	0	0	0	0	0
Polydora quadrilobata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Polyplacophora	0	0	12	3	1	16	0	0	0	0	0	0	0	0	0	0	0	0
Pontogeneia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pontogeneia ivanovi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Prionospio cirrifera	0	0	0	0	0	0	0	0	1	4	3	8	0	0	0	0	0	0
Prionospio steenstrupi	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	2
Protodorvillea gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Protothaca staminea	0	0	0	0	0	0	1	3	4	19	20	47	0	0	0	0	1	1
Pseudoscorpionida	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pygospio elegans	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rhynchospi glataea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rissoidae	0	64	173	149	292	678	0	0	0	0	0	0	0	0	0	0	0	0
Saccocirrus	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	2
Saccocirrus eroticus	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	2
Saxidomus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D-1 (continued).

Taxon	Herring Bay						Mussel Beach						Northwest Bay West Arm					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Saxidomus gigantea	0	0	0	0	0	0	2	0	3	2	1	8	0	0	0	0	0	0
Scolelepis squamatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos acmeceps	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scoloplos armiger	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sphaerosyllis pirifera	0	0	2	0	0	2	0	0	0	7	18	25	0	0	0	0	0	0
Spinulogammarus subcarinatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Spio filicornis	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Spionidae	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Spirorbis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Staphylinidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stichaeidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
Strongylocentrotus	0	0	0	2	0	2	1	0	0	2	0	3	0	0	0	0	0	0
Syllidae	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Syllis elongata	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tellina modesta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tharyx multifilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Turbellaria	0	3	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1
Turtonia minuta	1417	869	762	297	130	3475	0	0	0	3	15	18	2	0	0	0	0	2
Valvifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Veneridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	1975	1600	1699	1274	961	7509	101	125	186	242	239	893	74	153	81	31	51	390
Number of Taxa	36	33	33	36	27	61	16	18	22	33	32	57	17	20	15	7	15	33

Table D-1 (continued).

Taxon	Outside Bay						Sheep Bay						Shelter Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Acarina	0	0	1	12	8	21	0	0	0	0	1	1	0	0	2	0	1	3
<i>Acmira catherina</i>	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Allorchestes	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Allorchestes angustus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Alvania compacta</i>	7	13	11	6	8	45	9	21	5	3	1	39	0	0	0	0	2	2
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ampithoe	0	0	5	3	2	10	0	6	5	0	9	20	0	0	0	0	1	1
<i>Ampithoe dellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Anthozoa	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0
<i>Anurida maritima</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Armandia brevis</i>	0	0	0	2	2	4	0	0	0	0	1	1	0	0	0	0	0	0
<i>Asabellides sibirica</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asciidiacea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asellota	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2
Asteroidea	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Barantolla americana</i>	0	0	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Bittium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Bivalvia	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Boccardiella hamata</i>	0	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0
Bryozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cancer	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cancer magister</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cancer oregonensis</i>	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Capitella capitata	0	0	0	1	2	3	0	2	0	0	0	2	0	0	0	0	0	0
Caprellidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Chiridota	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
Chironomidae	0	2	1	0	0	3	0	0	0	0	0	0	0	2	1	0	0	3
Cingula	136	23	37	0	3	199	0	0	0	0	0	0	0	1	0	0	0	1
Cirratulidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cirratulus cirratus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cirratulus spectabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Clinocardium ciliatum</i>	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Collisella pelta</i>	0	2	0	0	0	2	0	0	0	0	0	0	0	0	2	0	2	0

D-12  
Table D-1 (continued).

Taxon	Outside Bay						Sheep Bay						Shelter Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Corophium	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Corophium brevis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cottidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Cryptomya californica	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Cumella vulgaris	0	1	0	1	0	2	0	0	4	1	17	22	4	2	0	0	1	7
Demospongiae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diosaccidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diplodonta aleutica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Diptera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Echinoida	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Eteone	0	0	0	0	3	3	0	1	0	0	0	1	0	0	0	0	0	0
Eteone longa	8	8	4	1	7	28	0	0	1	0	0	1	0	0	0	2	0	2
Eteone spetsbergensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Exogone gemmifera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fabriciola berkeleyi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Fartulum	54	44	4	0	0	102	0	39	0	1	0	40	0	0	0	0	0	0
Flabelligeridae	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
Gammaridea	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gammaroporeia alaskensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gastropoda	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Glycera capitata	2	1	0	0	1	4	1	0	0	0	0	1	0	0	0	0	0	0
Glycinde picta	0	0	1	6	1	8	0	1	0	0	1	2	0	0	0	0	0	0
Gnorimosphaeroma oregonensis	0	0	0	0	0	0	0	0	0	0	0	0	12	9	4	1	0	26
Golfingia procera	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Goniadidae	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0
Harmothoe imbricata	0	0	5	3	2	10	3	0	0	0	0	3	0	0	0	0	0	0
Harpacticoida	1	0	1	8	2	12	0	2	0	0	0	2	0	0	1	0	0	1
Harpacticus uniremis	18	54	11	4	11	98	0	32	0	3	0	35	0	0	0	0	0	0
Hemigrapsus oregonensis	0	0	0	0	0	0	0	0	2	1	0	3	0	0	0	0	0	0
Hiatella arctica	5	1	2	1	2	11	0	4	0	1	1	6	0	0	0	0	0	0
Hydrozoa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ianiropsis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Idotea	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1

Table D-1 (continued).

Taxon	Outside Bay						Sheep Bay						Shelter Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
Lacuna	2	6	0	5	0	13	0	1	2	0	0	3	0	0	0	0	0	0
Lagunogammarus setosus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Laophontidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Leitoscoloplos pugettensis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lepidonotus squamatus	0	3	3	10	8	24	2	3	0	4	2	11	0	0	0	0	0	0
Leptochelia savignyi	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Leptosynapta	3	4	4	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0
Levinsenia gracilis	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Littorina scutulata	0	1	0	2	1	4	3	5	18	5	20	51	18	13	8	4	3	46
Littorina sitkana	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	3	1	8
Lottiidae	0	0	0	0	0	0	18	24	1	5	4	52	0	0	0	0	1	1
Lumbrineris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Macoma	0	0	0	0	0	0	2	0	0	0	0	2	0	0	0	0	0	0
Macoma balthica	0	0	0	0	2	2	0	2	0	0	2	4	0	0	0	0	0	0
Macoma inquinata	0	1	6	5	12	24	3	2	7	2	0	14	0	0	0	0	0	0
Mactridae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Margarites marginatus	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Mediomastus californiensis	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Melita	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Melita californica	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Muscidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mysella tumida	51	35	57	37	92	272	9	22	31	10	8	80	0	0	3	0	0	3
Naineris quadricuspida	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0
Nematoda	12	78	24	29	49	192	3	3	1	2	1	10	4	6	3	45	18	76
Nemertea	4	11	1	0	0	16	1	6	5	5	1	18	0	0	0	18	5	23
Neoamphitrite robusta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nereis	0	1	0	0	0	1	0	0	0	0	0	0	0	3	4	0	0	7
Nereis vexillosa	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nerillidae	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Nucella lima	0	0	0	0	0	0	2	1	0	0	0	3	0	0	0	0	0	0
Nudibranchia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Odostomia	0	5	2	0	4	11	7	0	1	3	1	12	0	0	0	0	0	0

**Table D-1** (continued).

Table D-1 (continued).

Taxon	Outside Bay						Sheep Bay						Shelter Bay					
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal
<i>Saxidomus gigantea</i>	0	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scolelepis squamatus</i>	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0
<i>Scoloplos</i>	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Scoloplos acmeceps</i>	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
<i>Scoloplos armiger</i>	0	2	5	0	6	13	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphaerosyllis pirifera</i>	0	5	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	1
<i>Spinulogammarus subcarinatus</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spio filicornis</i>	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spionidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Spirorbis</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Staphylinidae</i>	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Stichaeidae</i>	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Strongylocentrotus</i>	0	5	0	1	0	6	0	0	0	0	0	0	0	0	0	0	0	0
<i>Syllidae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Syllis elongata</i>	0	0	1	1	1	3	2	2	1	0	0	5	0	0	0	0	0	0
<i>Tellina modesta</i>	0	0	0	0	0	0	0	0	0	1	2	3	0	0	0	0	0	0
<i>Tharyx multifilis</i>	5	4	7	2	0	18	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turbellaria</i>	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
<i>Turtonia minuta</i>	2	5	0	3	9	19	0	0	0	0	0	0	0	0	0	0	0	0
<i>Valvifera</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veneridae</i>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grand total	342	361	215	182	259	1359	90	220	118	78	104	610	79	100	81	83	41	384
Number of Taxa	29	38	33	34	33	71	24	33	25	23	26	53	8	11	12	12	14	29

Table D-1 (continued).

Taxon	Sleepy Bay						Snug Harbor						Grand total	Number of cores at which collected
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal		
Acarina	0	0	0	0	2	2	366	7	39	56	140	608	894	22
<i>Acmira catherina</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Allorchestes	0	0	0	0	0	0	0	0	0	0	0	0	4	1
<i>Allorchestes angustus</i>	0	0	0	0	0	0	8	0	1	10	0	19	23	5
<i>Alvania compacta</i>	4	18	2	0	1	25	1	0	2	0	2	5	264	36
Ampharetidae	0	0	0	0	0	0	0	0	0	0	0	0	19	2
Ampithoe	0	2	0	0	0	2	22	7	11	24	16	80	260	23
<i>Ampithoe dellii</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Anthozoa	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<i>Anurida maritima</i>	0	0	0	0	0	0	1	1	3	0	7	12	23	9
<i>Armandia brevis</i>	0	0	0	0	0	0	0	0	0	0	0	0	34	12
<i>Asabellides sibirica</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Asciidiacea	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Asellota	0	0	0	0	1	1	0	2	4	3	0	9	13	6
Asteroidea	0	0	0	0	0	0	1	3	1	5	0	10	11	5
<i>Barantolla americana</i>	0	0	0	0	0	0	0	0	0	0	0	0	15	10
Bittium	0	0	0	0	0	0	0	0	1	1	0	2	2	2
Bivalvia	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Boccardiella hamata</i>	0	0	0	0	0	0	0	0	0	0	0	0	4	1
Bryozoa	0	0	0	0	0	0	0	5	0	0	0	5	5	1
Cancer	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Cancer magister</i>	0	0	0	0	1	1	0	0	0	0	0	0	1	1
<i>Cancer oregonensis</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Capitella capitata</i>	0	0	0	0	0	0	0	0	0	0	0	0	10	7
Caprellidae	0	0	0	0	0	0	0	0	0	0	0	0	6	4
<i>Chiridota</i>	0	0	0	0	0	0	0	0	0	0	0	0	6	5
Chironomidae	0	0	0	0	0	0	685	6	174	29	103	997	1112	21
Cingula	0	0	0	0	0	0	1	0	0	0	0	1	778	18
Cirratulidae	0	0	0	0	0	0	1	0	0	0	0	1	2	2
<i>Cirratulus cirratus</i>	0	0	0	0	0	0	0	0	0	0	1	1	1	1
<i>Cirratulus spectabilis</i>	0	0	0	0	0	0	0	0	0	0	0	0	2	1
<i>Clinocardium ciliatum</i>	0	0	0	0	0	0	0	0	0	0	0	0	1	1
<i>Collisella pelta</i>	0	0	0	0	0	0	0	0	0	0	1	1	8	6

Table D-1 (continued).

Taxon	Sleepy Bay						Snug Harbor						Grand total	Number of cores at which collected
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal		
Corophium	0	0	0	0	0	0	0	0	0	0	0	0	98	7
Corophium brevis	0	0	0	0	0	0	0	0	0	0	0	0	73	7
Cottidae	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Cryptomya californica	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Cumella vulgaris	0	0	0	0	0	0	46	3	32	8	23	112	431	32
Demospongiae	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Diosaccidae	0	0	0	0	0	0	0	0	0	0	0	0	7	1
Diplodonta aleutica	0	0	0	0	0	0	0	0	0	0	0	0	4	2
Diptera	0	0	0	0	0	0	2	0	0	0	0	0	14	6
Echinoida	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Eteone	0	0	1	0	1	2	0	1	0	1	0	2	30	15
Eteone longa	0	2	1	0	0	3	0	4	4	8	2	18	165	29
Eteone spetsbergensis	0	0	0	2	3	5	0	0	0	0	0	0	19	9
Exogone gemmifera	0	0	0	0	0	0	0	0	0	0	0	0	22	4
Fabriciola berkeleyi	0	0	0	0	0	0	18	11	13	11	19	72	76	8
Fartulum	3	0	1	0	0	4	16	5	10	0	68	99	312	20
Flabelligeridae	0	0	0	0	0	0	0	0	0	0	0	0	2	1
Gammaridea	0	0	0	0	0	0	0	0	4	0	0	4	9	5
Gammaroporeia alaskensis	0	0	0	1	0	1	0	0	0	0	0	0	1	1
Gastropoda	2	0	0	0	0	2	0	1	0	0	0	1	7	3
Glycera capitata	0	0	0	0	0	0	0	0	0	1	0	1	13	9
Glycinde picta	0	0	0	0	0	0	0	0	0	0	0	0	13	8
Gnorimosphaeroma oregonensis	2	106	17	24	24	173	2	0	0	0	0	2	213	17
Golfingia procera	0	0	0	0	0	0	0	0	0	0	0	0	7	4
Goniadidae	0	0	0	0	0	0	0	0	0	0	0	0	4	1
Harmothoe imbricata	0	0	0	0	0	0	0	0	0	0	0	0	16	7
Harpacticoida	0	0	0	0	0	0	342	0	6	3	3	354	534	19
Harpacticus uniremis	0	0	0	0	0	0	0	1	0	0	0	1	633	18
Hemigrapsus oregonensis	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Hiatella arctica	3	0	0	0	0	3	1	0	0	0	0	1	85	21
Hydrozoa	0	0	0	0	0	0	0	0	0	0	0	0	8	2
Ianiropsis	0	0	0	0	0	0	0	0	0	0	0	0	14	2
Idotea	0	0	0	0	0	0	0	0	0	0	0	0	2	2

**Table D-1** (continued).

Table D-1 (continued).

Taxon	Sleepy Bay						Snug Harbor						Grand total	Number of cores at which collected
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal		
Oligochaeta	0	0	0	1	2	3	126	2	131	21	29	309	1424	45
<i>Ophelia limacina</i>	0	0	0	0	0	0	0	0	0	0	0	0	9	3
<i>Orbiniella nuda</i>	0	0	0	0	0	0	0	0	0	0	0	0	14	6
<i>Owenia fusiformis</i>	0	0	0	0	0	0	0	0	0	0	0	0	11	5
Oweniidae	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Paguridae	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pagurus	0	2	1	0	0	3	1	0	0	1	0	2	42	22
Paramoera	0	13	14	9	3	39	0	0	0	0	0	0	121	15
Pectinaria	0	0	0	0	0	0	0	0	0	0	0	0	23	10
<i>Pectinaria granulata</i>	0	1	0	0	0	1	0	0	0	0	0	0	40	12
<i>Pentidotea wosnesenskii</i>	0	1	0	1	1	3	0	0	0	0	0	0	3	3
<i>Pherusa plumosa</i>	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Pholoe minuta	0	0	0	0	0	0	55	5	33	0	5	98	246	28
Phoronidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Podocopina	0	0	0	0	0	0	378	0	5	2	42	427	539	15
Polychaeta	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<i>Polydora brachycephala</i>	0	0	0	0	0	0	0	0	0	0	0	0	20	10
<i>Polydora quadrilobata</i>	0	0	0	0	0	0	0	0	0	0	0	0	6	5
Polynoidae	0	0	0	0	0	0	0	0	0	0	0	0	23	7
Polyplacophora	0	0	0	0	0	0	0	2	0	9	0	11	34	10
Pontogeneia	0	0	0	10	4	14	0	0	0	0	0	0	14	2
<i>Pontogeneia ivanovi</i>	0	0	9	0	0	9	0	0	0	0	0	0	9	1
Prionospio cirrifera	0	0	0	0	0	0	0	0	0	0	0	0	18	8
Prionospio steenstrupi	0	0	0	0	0	0	0	0	0	0	0	0	6	5
Protodorvillea gracilis	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Protothaca staminea	0	0	1	0	1	2	1	0	0	0	0	1	208	28
Pseudoscorpionida	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Pygospio elegans	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Rhynchospio glutaea	0	0	0	0	0	0	0	0	0	0	0	0	4	2
Rissoidae	1	0	0	0	0	1	0	0	0	0	0	0	705	11
Saccocirrus	0	0	0	0	0	0	0	0	0	0	0	0	2	2
<i>Saccocirrus eroticus</i>	0	0	70	0	3	73	0	0	0	0	0	0	75	3
Saxidomus	0	0	0	0	0	0	0	0	0	0	0	0	9	4

Table D-1 (continued).

Taxon	Sleepy Bay						Snug Harbor						Grand total	Number of cores at which collected
	1	2	3	4	5	Subtotal	1	2	3	4	5	Subtotal		
Saxidomus gigantea	0	0	0	0	0	0	0	0	0	0	0	0	11	5
Scolelepis squamatus	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Scoloplos	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Scoloplos acmeceps	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Scoloplos armiger	0	0	0	0	0	0	0	0	0	0	0	0	13	3
Sphaerosyllis pirifera	0	0	0	0	0	0	0	0	0	0	0	0	36	8
Spinulogammarus subcarinatus	0	49	9	8	2	68	0	0	0	0	0	0	68	4
Spio filicornis	0	0	0	0	0	0	0	0	0	0	0	0	21	6
Spionidae	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Spirorbis	0	0	0	0	0	0	0	0	0	0	0	0	2	2
Staphylinidae	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Stichaeidae	0	1	0	0	0	1	0	0	0	0	0	0	4	4
Strongylocentrotus	0	0	0	0	0	0	0	0	0	0	0	0	14	8
Syllidae	0	0	0	0	0	0	0	0	0	0	0	0	1	1
Syllis elongata	0	1	0	0	2	3	0	0	1	0	0	1	46	12
Tellina modesta	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Tharyx multifilis	0	0	0	0	0	0	0	0	0	0	0	0	18	4
Turbellaria	0	0	0	0	0	0	0	0	0	0	0	0	5	3
Turtonia minuta	0	0	0	0	0	0	516	7	147	62	93	825	5557	22
Valvifera	0	0	0	0	3	3	5	0	0	0	5	10	14	4
Veneridae	0	0	0	0	0	0	1	0	0	0	0	1	1	1
Grand total	46	275	271	68	151	811	3146	115	715	309	753	5038	20874	
Number of Taxa	9	15	17	11	21	35	30	25	25	22	22	47		

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Table D-2 Complete listing of all infaunal data from samples in Prince William Sound, July 1992.

Taxa that have been deleted from Table D-3 are listed below summary statistics; taxa that were deleted for calculation of H' are indicated with an asterisk (\*).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Acmina catherina	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Aglaja	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Allorchestes angustus	0	0	0	0	0	0.00	0.00	0	0	4	0	0	0.80	1.79
Alvania compacta	0	0	0	0	0	0.00	0.00	0	2	1	16	1	4.00	6.75
Ampharetidae*	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Ampithoe kussakina	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Ampithoe dalli	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Anthozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Armandia brevis	0	0	0	0	0	0.00	0.00	1	0	3	1	0	1.00	1.22
Asabellides sibirica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Barantolla americana	0	0	0	0	0	0.00	0.00	0	1	3	0	0	0.80	1.30
Bittium	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Boccardiella hamata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Capitella capitata	0	0	0	0	0	0.00	0.00	0	0	0	0	1	1	0.40
Chiridota	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cingula sp 1	1	1	0	0	0	0.40	0.55	0	0	0	0	0	0.00	0.00
Cingula sp 2	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cirratulidae*	0	0	0	0	0	0.00	0.00	0	0	1	0	0	0.20	0.45
Cirratulus spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Clinocardium ciliatum	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Corophium brevis	7	4	16	14	18	11.80	6.02	0	0	0	0	0	0.00	0.00
Cryptomya californica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cumella vulgaris	0	3	11	4	0	3.60	4.51	0	0	18	6	1	5.00	7.68
Diplodonta aleutica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Eteone*	0	0	0	0	0	0.00	0.00	0	0	0	0	1	0.20	0.45
Eteone longa	0	0	0	0	0	0.00	0.00	2	11	13	22	0	9.60	8.91
Eteone spetsbergensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Exogone gemmifera	0	0	0	0	0	0.00	0.00	0	0	16	0	0	3.20	7.16

Table D-2 (continued).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Fabriciola berkeleyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Fartulum</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycera capitata</i>	0	0	0	0	0	0.00	0.00	0	1	2	3	0	1.20	1.30
<i>Glycinde picta</i>	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45
<i>Golfingia procera</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Harmothoe imbricata</i>	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.20	0.45
<i>Ianiropsis</i>	0	0	0	13	1	2.80	5.72	0	0	0	0	0	0.00	0.00
<i>Lagunogammarus setosus</i>	0	0	0	6	0	1.20	2.68	0	0	0	0	0	0.00	0.00
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0.00	0.00	0	0	1	2	0	0.60	0.89
<i>Leptochelia savignyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leptosynapta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Levinsea gracilis</i>	0	0	0	0	0	0.00	0.00	0	0	1	1	1	0.60	0.55
<i>Lumbrineris*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma balthica</i>	1	5	2	1	0	1.80	1.92	2	0	3	1	6	2.40	2.30
<i>Macoma inquinata</i>	0	0	0	0	0	0.00	0.00	9	19	14	18	0	12.00	7.78
<i>Mediomastus californiensis</i>	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.20	0.45
<i>Melita californica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita desdichada</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Mysella tumida</i>	0	0	0	0	0	0.00	0.00	4	13	37	26	0	16.00	15.41
<i>Naineris quadricuspida</i>	0	0	0	0	0	0.00	0.00	0	0	0	17	0	3.40	7.60
<i>Neoamphitrite robusta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Nereis vexillosa</i>	2	0	6	2	2	2.40	2.19	0	0	1	0	2	0.60	0.89
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Odostomia</i>	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.20	0.45
<i>Ophelia limacina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Orbiniella nuda</i>	2	8	1	1	0	2.40	3.21	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Owenia fusiformis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Paramoera sp. 2	4	3	2	10	2	4.20	3.35	0	0	0	0	0	0.00	0.00
Pectinaria granulata	0	0	0	0	0	0.00	0.00	1	4	10	3	0	3.60	3.91
Pherusa plumosa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pholoe minuta	0	13	10	9	2	6.80	5.54	0	0	0	0	0	0.00	0.00
Phoronida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polydora brachycephala	0	0	0	0	0	0.00	0.00	0	0	9	0	0	1.80	4.02
Polydora quadrilobata	0	0	0	0	0	0.00	0.00	0	0	1	1	1	0.60	0.55
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio cirrifera	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio steenstrupi	0	0	0	0	0	0.00	0.00	0	2	0	0	0	0.40	0.89
Protodorvillea gracilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protothaca staminea	0	0	0	0	0	0.00	0.00	21	18	7	17	2	13.00	8.09
Pygospio elegans	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rhynchospio glutaea	0	0	0	0	0	0.00	0.00	0	0	2	2	0	0.80	1.10
Rissidae*	2	1	2	0	0	1.00	1.00	0	0	0	0	0	0.00	0.00
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Saxidomus gigantea	0	0	0	0	0	0.00	0.00	0	2	4	2	0	1.60	1.67
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos acmeceps	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos armiger	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Sphaerosyllis pirifera	0	0	0	0	0	0.00	0.00	0	0	0	1	1	0.40	0.55
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spio filicornis	0	0	0	0	0	0.00	0.00	0	5	5	8	0	3.60	3.51
Syllis elongata	0	0	0	0	0	0.00	0.00	0	2	2	30	0	6.80	13.01
Tellina modesta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tharyx multifilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Number of Individuals	19	38	50	60	25	38.40	17.01	41	81	158	180	17	95.40	71.40
Number of Taxa	7	8	8	9	5	7.40	1.52	8	13	23	22	10	15.20	6.91
H'	2	2	2	2	1	1.63	0.37	1	2	3	3	2	2.14	0.45
J	2	2	2	2	1	1.87	0.27	2	2	2	2	2	1.86	0.15
Total No. of Taxa						11.00							32.00	
Composite H'						2.06							2.75	
Composite J						1.98							1.83	
Taxa deleted or lumped into a species														
Acarina	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Anurida maritima	0	0	1	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Asciidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asellota	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asteroidea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bivalvia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bryozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer magister	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Caprellidae	0	0	0	0	0	0.00	0.00	1	0	0	0	0	1.00	
Chironomidae	0	0	0	0	1	1.00	1.00	0	0	0	0	0	0.00	0.00
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Collisella pelta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cottidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Demospongiae	0	2	0	0	0	2.00	2.00	0	0	0	0	0	0.00	0.00
Diosaccidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diptera	1	0	0	0	0	1.00	1.00	0	0	0	0	0	0.00	0.00
Echinoida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Gammaridea	0	0	0	0	0	0.00	0.00	0	0	0	0	1	1.00	
Gastropoda	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	

Table D-2 (continued).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Gnorimosphaeroma oregonensis	0	3	3	2	1	9.00	9.00	0	0	0	0	0	0.00	0.00
Goniadidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Harpacticoida	1	0	0	0	0	1.00	1.00	0	0	0	0	0	0.00	0.00
Harpacticus uniremis	0	0	0	0	0	0.00	0.00	0	0	1	0	0	1.00	
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Hiatella arctica	0	0	0	0	0	0.00	0.00	0	0	1	1	0	0.40	0.55
Hydrozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Idotea	1	0	0	0	0	1.00	1.00	0	0	0	0	0	0.00	
Lacuna	0	0	0	5	0	0.00	0.00	0	0	0	0	0	0.00	
Laophontidae	0	0	0	0	0	0.00	0.00	0	0	2	0	0	2.00	
Littorina scutulata	4	2	5	2	3	16.00	16.00	0	0	2	2	14	18.00	
Littorina sitkana	12	4	9	15	17	57.00	57.00	1	0	0	0	4	5.00	
Lottiidae	0	0	0	0	0	0.00	0.00	3	1	7	8	1	20.00	
Lumbrineris	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Macoma	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Mactridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Margarites marginatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Muscidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Nematoda	1	3	6	7	5	22.00	22.00	1	0	66	6	26	99.00	
Nemertea	0	0	0	0	1	1.00	1.00	2	6	2	8	14	32.00	
Nucella lima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Nudibranchia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Oligochaeta	31	22	17	39	59	168.00	168.00	9	10	92	18	42	171.00	
Oweniidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Paguridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Pagurus	0	0	0	1	0	1.00	1.00	0	2	4	0	1	7.00	
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Podocopina	0	0	1	0	0	1.00	1.00	0	0	0	0	0	0.00	
Polychaeta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Polynoidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	

Table D-2 (continued).

Taxon	Bainbridge Bight							Block Island						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Polyplacophora	0	0	0	0	0	0.00	0.00	0	0	1	1	0	2.00	
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Scoloplos	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Spionidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Spirorbis	0	0	0	0	0	0.00	0.00	0	0	0	0	1	1.00	
Staphylinidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Stichaeidae	0	0	0	0	0	0.00	0.00	0	0	1	0	0	1.00	
Strongylocentrotus	0	0	0	0	0	0.00	0.00	1	0	1	1	0	3.00	
Syllidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Turbellaria	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Turtonia minuta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	
Valvifera	0	0	0	0	0	0.00	0.00	1	0	0	0	0	1.00	
Veneridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	

Table D-2 (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Acmina catherina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Aglaja</i>	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.20	0.45
<i>Allorchestes angustus</i>	0	0	0	0	0	0.00	0.00	3	1	0	0	0	0.80	1.30
<i>Alvania compacta</i>	0	0	1	1	1	0.60	0.55	27	4	23	31	3	17.60	13.18
<i>Ampharetidae*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Ampithoe kussakina</i>	0	0	0	0	1	0.20	0.45	14	3	3	16	4	8.00	6.44
<i>Ampithoe dalli</i>	0	1	88	2	13	20.80	37.93	0	0	0	0	0	0.00	0.00
<i>Anthozoa</i>	0	0	2	0	0	0.40	0.89	0	0	0	0	0	0.00	0.00
<i>Armandia brevis</i>	0	0	0	0	0	0.00	0.00	1	1	1	0	0	0.60	0.55
<i>Asabellides sibirica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Barantolla americana</i>	2	0	2	0	1	1.00	1.00	0	1	2	0	0	0.60	0.89
<i>Bittium</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Boccardiella hamata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Capitella capitata</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Chiridota</i>	0	0	0	0	0	0.00	0.00	1	0	1	1	1	0.80	0.45
<i>Cingula sp 1</i>	0	18	72	11	21	24.40	27.81	81	31	53	131	31	65.40	42.03
<i>Cingula sp 2</i>	0	0	0	0	0	0.00	0.00	60	52	5	2	2	24.20	29.19
<i>Cirratulidae*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cirratulus spectabilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Clinocardium ciliatum</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Corophium brevis</i>	0	0	0	0	0	0.00	0.00	26	69	3	10	4	22.40	27.63
<i>Cryptomya californica</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Cumella vulgaris</i>	3	7	33	5	14	12.40	12.24	49	48	47	13	21	35.60	17.23
<i>Diplodonta aleutica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Eteone*</i>	5	1	9	1	0	3.20	3.77	0	0	0	0	0	0.00	0.00
<i>Eteone longa</i>	0	0	3	1	3	1.40	1.52	8	0	4	8	1	4.20	3.77
<i>Eteone spetsbergensis</i>	0	0	2	0	1	0.60	0.89	0	7	0	0	0	1.40	3.13
<i>Exogone gemmifera</i>	0	0	0	0	0	0.00	0.00	2	0	0	1	0	0.60	0.89

Table D-2 (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Fabriciola berkeleyi</i>	0	0	0	0	2	0.40	0.89	0	1	0	0	0	0.20	0.45
<i>Fartulum</i>	0	0	0	0	0	0.00	0.00	30	0	0	1	0	6.20	13.31
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycera capitata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycinde picta</i>	0	0	0	0	0	0.00	0.00	0	1	1	0	0	0.40	0.55
<i>Golfingia procera</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Harmothoe imbricata</i>	0	0	0	0	0	0.00	0.00	0	0	1	1	0	0.40	0.55
<i>Ianiropsis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lagunogammarus setosus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.20	0.45
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0.00	0.00	0	1	1	0	0	0.40	0.55
<i>Leptochelia savignyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leptosynapta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Levinsenia gracilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lumbrineris*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma balthica</i>	4	0	12	4	15	7.00	6.24	11	10	10	12	0	8.60	4.88
<i>Macoma inquinata</i>	0	0	0	1	0	0.20	0.45	0	2	5	4	6	3.40	2.41
<i>Mediomastus californiensis</i>	0	0	0	0	0	0.00	0.00	0	0	2	0	0	0.40	0.89
<i>Melita californica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita desdichada</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Mysella tumida</i>	1	0	1	0	0	0.40	0.55	0	1	0	34	13	9.60	14.71
<i>Naineris quadricuspida</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Neoamphitrite robusta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Nereis vexillosa</i>	0	0	0	0	0	0.00	0.00	0	0	0	1	1	0.40	0.55
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Odostomia</i>	0	0	0	0	0	0.00	0.00	3	1	7	11	1	4.60	4.34
<i>Ophelia limacina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Orbiniella nuda</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Owenia fusiformis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Paramoera sp. 2	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pectinaria granulata	0	0	0	0	0	0.00	0.00	0	0	1	0	0	0.20	0.45
Pherusa plumosa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pholoe minuta	0	0	0	0	0	0.00	0.00	4	2	0	1	0	1.40	1.67
Phoronida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polydora brachycephala	1	1	0	0	0	0.40	0.55	0	0	1	1	2	0.80	0.84
Polydora quadrilobata	0	0	2	0	0	0.40	0.89	0	0	0	0	0	0.00	0.00
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio cirrifera	0	0	1	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Prionospio steenstrupi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protodorvillea gracilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protothaca staminea	0	1	1	0	1	0.60	0.55	0	0	0	0	0	0.00	0.00
Pygospio elegans	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
Rhynchospio glutaea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rissoidae*	4	14	0	0	3	4.20	5.76	0	64	173	149	292	135.60	111.30
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Saxidomus gigantea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos acmeceps	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos armiger	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Sphaerosyllis pirifera	0	0	0	0	0	0.00	0.00	0	0	2	0	0	0.40	0.89
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spio filicornis	0	0	1	0	0	0.20	0.45	0	0	0	0	1	0.20	0.45
Syllis elongata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tellina modesta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tharyx multifilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2. (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Number of Individuals	21	44	230	26	77	79.60	86.89	321	300	346	429	383	355.80	51.28
Number of Taxa	8	8	15	8	13	10.40	3.36	16	19	21	20	15	18.20	2.59
H'	2	1	2	2	2	1.73	0.21	2	2	2	2	1	1.76	0.44
J	2	2	1	2	2	1.75	0.27	2	2	1	1	1	1.40	0.35
Total No. of Taxa						23.00							32.00	
Composite H'						1.98							2.10	
Composite J						1.45							1.39	
Taxa deleted or lumped into a species														
Acarina	0	0	0	4	1	0.00	5.00	7	102	76	21	39	0.00	245.00
Anurida maritima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asciidiacea	0	0	0	0	0	0.00	0.00	1	2	0	0	0	0.00	3.00
Asellota	0	0	1	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Asteroidea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bivalvia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bryozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer magister	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Caprellidae	0	0	0	0	0	1.00	0.00	1	0	0	2	2	1.00	5.00
Chironomidae	1	2	32	13	4	0.00	52.00	5	12	30	5	3	0.00	55.00
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Collisella pelta	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.00	1.00
Cottidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Demospongiae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diosaccidae	0	0	0	0	0	0.00	0.00	0	0	0	7	0	0.00	7.00
Diptera	0	0	0	6	1	0.00	7.00	3	0	0	0	0	0.00	3.00
Echinoida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Gammaridea	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Gastropoda	0	0	0	0	4	0.00	4.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Gnorimosphaeroma oregonensis	0	0	1	0	1	0.00	2.00	1	0	0	0	0	0.00	1.00
Goniadidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Harpacticoida	0	0	2	0	0	0.00	2.00	18	76	7	0	50	0.00	151.00
Harpacticus uniremis	0	0	0	0	0	1.00	0.00	2	0	174	157	151	1.00	484.00
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Hiatella arctica	1	0	0	0	0	0.20	0.45	0	0	1	7	0	1.60	3.05
Hydrozoa	0	2	0	0	6	0.00	8.00	0	0	0	0	0	0.00	0.00
Idotea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Lacuna	0	0	5	0	2	0.00	7.00	11	32	0	5	0	0.00	48.00
Laophontidae	0	0	0	0	0	2.00	0.00	0	0	0	0	0	2.00	0.00
Littorina scutulata	0	6	76	18	19	18.00	119.00	1	8	0	1	4	18.00	14.00
Littorina sitkana	0	2	69	37	34	5.00	142.00	4	11	0	0	0	5.00	15.00
Lottiidae	1	1	4	1	4	20.00	11.00	1	0	0	0	0	20.00	1.00
Lumbrineris	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Macoma	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Mactridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Margarites marginatus	0	0	0	0	0	0.00	0.00	0	0	0	1	2	0.00	3.00
Muscidae	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.00	1.00
Nematoda	6	2	50	22	5	99.00	85.00	54	101	256	93	74	99.00	578.00
Nemertea	3	10	12	16	4	32.00	45.00	3	0	3	218	117	32.00	341.00
Nucella lima	0	0	2	1	0	0.00	3.00	0	0	0	1	0	0.00	1.00
Nudibranchia	0	4	18	11	0	0.00	33.00	9	3	8	0	0	0.00	20.00
Oligochaeta	86	113	121	69	13	171.00	402.00	70	39	14	18	1	171.00	142.00
Oweniidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Paguridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pagurus	2	0	2	0	2	7.00	6.00	0	0	0	0	0	7.00	0.00
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Podocopina	0	0	1	2	0	0.00	3.00	44	40	9	7	4	0.00	104.00
Polychaeta	0	0	0	0	0	0.00	0.00	0	0	1	0	0	0.00	1.00
Polynoidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Crab Bay							Herring Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Polyplacophora	0	0	0	0	0	2.00	0.00	0	0	12	3	1	2.00	16.00
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spionidae	0	0	0	1	0	0.00	1.00	0	2	0	0	0	0.00	2.00
Spirorbis	0	0	0	0	0	1.00	0.00	1	0	0	0	0	1.00	1.00
Staphylinidae	0	1	0	0	1	0.00	2.00	0	0	0	0	0	0.00	0.00
Stichaeidae	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Strongylocentrotus	0	0	0	0	0	3.00	0.00	0	0	0	2	0	3.00	2.00
Syllidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Turbellaria	0	0	0	0	0	0.00	0.00	0	3	0	0	0	0.00	3.00
Turtonia minuta	2	3	722	219	272	0.00	1218.00	1417	869	762	297	130	0.00	3475.00
Valvifera	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Veneridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Acmira catherina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Aglaja</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Allorchestes angustus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Alvania compacta</i>	0	0	4	4	14	4.40	5.73	4	3	8	0	0	3.00	3.32
<i>Ampharetidae*</i>	0	0	0	4	15	3.80	6.50	0	0	0	0	0	0.00	0.00
<i>Ampithoe kussakina</i>	2	0	0	0	0	0.40	0.89	0	0	0	0	0	0.00	0.00
<i>Ampithoe dalli</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Anthozoa</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Armandia brevis</i>	0	16	0	4	1	4.20	6.80	0	0	0	0	0	0.00	0.00
<i>Asabellides sibirica</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Barantolla americana</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Bittium</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Boccardiella hamata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Capitella capitata</i>	0	0	0	0	0	0.00	0.00	0	0	0	2	0	0.40	0.89
<i>Chiridota</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cingula sp 1</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cingula sp 2</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cirratulidae*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cirratulus spectabilis</i>	0	0	0	2	0	0.40	0.89	0	0	0	0	0	0.00	0.00
<i>Clinocardium ciliatum</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Corophium brevis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cryptomya californica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cumella vulgaris</i>	0	0	1	0	0	0.20	0.45	0	2	2	0	0	0.80	1.10
<i>Diplodonta aleutica</i>	0	0	0	2	2	0.80	1.10	0	0	0	0	0	0.00	0.00
<i>Eteone*</i>	0	0	0	0	1	0.20	0.45	1	1	0	0	2	0.80	0.84
<i>Eteone longa</i>	8	7	13	8	1	7.40	4.28	0	0	0	0	0	0.00	0.00
<i>Eteone spetsbergensis</i>	0	0	0	0	0	0.00	0.00	1	0	1	1	0	0.60	0.55
<i>Exogone gemmifera</i>	0	0	0	3	0	0.60	1.34	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Fabriciola berkeleyi</i>	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Fartulum</i>	0	0	3	16	11	6.00	7.18	0	2	2	1	1	1.20	0.84
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycera capitata</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Glycindae picta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Golfingia procera</i>	1	1	3	0	2	1.40	1.14	0	0	0	0	0	0.00	0.00
<i>Harmothoe imbricata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Ianiropsis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lagunogammarus setosus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leptochelia savignyi</i>	0	0	0	9	10	3.80	5.22	0	1	1	0	0	0.40	0.55
<i>Leptosynapta</i>	0	0	0	7	0	1.40	3.13	0	0	0	0	0	0.00	0.00
<i>Levinsenia gracilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lumbrineris*</i>	0	0	0	1	0	0.20	0.45	0	0	0	0	1	0.20	0.45
<i>Macoma balthica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma inquinata</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Mediomastus californiensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita californica</i>	0	2	2	22	0	5.20	9.44	0	0	0	0	0	0.00	0.00
<i>Melita desdichada</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Melita*</i>	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Mysella tumida</i>	13	25	14	20	18	18.00	4.85	0	1	0	0	1	0.40	0.55
<i>Naineris quadricuspida</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Neoamphitrite robusta</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Nereis vexillosa</i>	0	3	0	2	0	1.00	1.41	1	0	0	0	0	0.20	0.45
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Odostomia</i>	0	0	0	7	1	1.60	3.05	2	4	3	0	0	1.80	1.79
<i>Ophelia limacina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Orbiniella nuda</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Owenia fusiformis	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
Paramoera sp. 2	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45
Pectinaria granulata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pherusa plumosa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pholoe minuta	0	0	1	14	13	5.60	7.23	11	29	12	2	1	11.00	11.25
Phoronida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polydora brachycephala	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polydora quadrilobata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio cirrifera	0	0	1	4	3	1.60	1.82	0	0	0	0	0	0.00	0.00
Prionospio steenstrupi	0	0	0	0	0	0.00	0.00	0	1	1	0	0	0.40	0.55
Protodorvillea gracilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protothaca staminea	1	3	4	19	20	9.40	9.29	0	0	0	0	1	0.20	0.45
Pygospio elegans	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rhynchospio glutaea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rissoidae*	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	0	2	1	0	1	0.80	0.84
Saxidomus gigantea	2	0	3	2	1	1.60	1.14	0	0	0	0	0	0.00	0.00
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos acmèceps	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos armiger	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Sphaerosyllis pirifera	0	0	0	7	18	5.00	7.87	0	0	0	0	0	0.00	0.00
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spio filicornis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Syllis elongata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tellina modesta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tharyx multifilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Number of Individuals	30	61	49	157	134	86.20	55.85	20	47	31	6	8	22.40	17.04
Number of Taxa	9	11	11	20	19	14.00	5.10	6	11	9	4	7	7.40	2.70
H'	2	2	2	3	2	2.09	0.45	1	2	2	1	2	1.56	0.26
J	2	2	2	2	2	1.85	0.17	2	1	2	2	2	1.89	0.35
Total No. of Taxa						34.00							16.00	
Composite H'						2.77							1.89	
Composite J						1.81							1.57	
Taxa deleted or lumped into a species														
Acarina	0	0	0	0	7	0.00	7.00	1	0	0	0	1	0.00	2.00
Anurida maritima	0	0	0	4	4	1.60	2.19	0	1	1	0	0	0.40	0.55
Asciidiacea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asellota	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asteroidea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bivalvia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bryozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer	0	0	0	0	1	0.00	1.00	0	0	0	0	0	0.00	0.00
Cancer magister	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Caprellidae	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Chironomidae	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.00	1.00
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Collisella pelta	1	0	1	0	0	0.00	2.00	0	0	0	0	0	0.00	0.00
Cottidae	0	0	1	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Demospongiae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diosaccidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diptera	0	1	0	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Echinoida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Gammaridea	0	0	1	0	2	1.00	3.00	0	0	0	0	1	1.00	1.00
Gastropoda	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Gnorimosphaeroma oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Goniadidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Harpacticoida	0	0	4	2	5	0.00	11.00	0	0	0	0	0	0.00	0.00
Harpacticus uniremis	0	1	5	3	4	1.00	13.00	0	0	1	0	0	1.00	1.00
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Hiatella arctica	0	0	1	0	0	0.20	0.45	7	13	8	13	11	10.40	2.79
Hydrozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Idotea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Lacuna	0	1	2	13	3	0.00	19.00	0	0	0	0	0	0.00	0.00
Laophontidae	0	0	0	0	0	2.00	0.00	0	0	0	0	0	2.00	0.00
Littorina scutulata	1	1	0	0	0	18.00	2.00	9	56	13	10	16	18.00	104.00
Littorina sitkana	0	0	0	3	0	5.00	3.00	4	3	0	0	1	5.00	8.00
Lottiidae	0	0	0	1	0	20.00	1.00	15	25	26	2	6	20.00	74.00
Lumbrineris	0	0	0	1	0	0.00	1.00	0	0	0	0	1	0.00	1.00
Macoma	0	0	1	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Mactridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Margarites marginatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Muscidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Nematoda	43	36	82	34	43	99.00	238.00	9	3	1	0	2	99.00	15.00
Nemertea	4	12	0	9	8	32.00	33.00	2	3	0	0	5	32.00	10.00
Nucella lima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Nudibranchia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Oligochaeta	18	7	38	9	10	171.00	82.00	3	0	0	0	0	171.00	3.00
Oweniidae	0	0	0	0	1	0.00	1.00	0	0	0	0	0	0.00	0.00
Paguridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pagurus	3	5	1	0	2	7.00	11.00	0	0	0	0	0	7.00	0.00
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Podocopina	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.00	1.00
Polychaeta	0	0	0	1	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Polynoidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Mussel Beach							Northwest Bay West Arm						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Polyplacophora	0	0	0	0	0	2.00	0.00	0	0	0	0	0	2.00	0.00
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spionidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spirorbis	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Staphylinidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Stichaeidae	0	0	0	0	0	1.00	0.00	0	1	0	0	0	1.00	1.00
Strongylocentrotus	1	0	0	2	0	3.00	3.00	0	0	0	0	0	3.00	0.00
Syllidae	0	0	0	1	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Turbellaria	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.00	1.00
Turtonia minuta	0	0	0	3	15	0.00	18.00	2	0	0	0	0	0.00	2.00
Valvifera	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Veneridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Acmina catherina</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Aglaja</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Allorchestes angustus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Alvania compacta</i>	7	13	11	6	8	9.00	2.92	9	21	5	3	1	7.80	7.95
<i>Ampharetidae*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Ampithoe kussakina</i>	0	0	5	3	2	2.00	2.12	0	6	5	0	9	4.00	3.94
<i>Ampithoe dalli</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Anthozoa</i>	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45
<i>Armandia brevis</i>	0	0	0	2	2	0.80	1.10	0	0	0	0	1	0.20	0.45
<i>Asabellides sibirica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Barantolla americana</i>	0	0	0	1	0	0.20	0.45	0	0	0	0	1	0.20	0.45
<i>Bittium</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Boccardiella hamata</i>	0	4	0	0	0	0.80	1.79	0	0	0	0	0	0.00	0.00
<i>Capitella capitata</i>	0	0	0	1	2	0.60	0.89	0	2	0	0	0	0.40	0.89
<i>Chiridota</i>	2	0	0	0	0	0.40	0.89	0	0	0	0	0	0.00	0.00
<i>Cingula sp 1</i>	136	23	37	0	3	39.80	55.86	0	0	0	0	0	0.00	0.00
<i>Cingula sp 2</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cirratulidae*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cirratulus spectabilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Clinocardium ciliatum</i>	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Corophium brevis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Cryptomya californica</i>	1	0	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Cumella vulgaris</i>	0	1	0	1	0	0.40	0.55	0	0	4	1	17	4.40	7.23
<i>Diplodonta aleutica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Eteone*</i>	0	0	0	0	3	0.60	1.34	0	1	0	0	0	0.20	0.45
<i>Eteone longa</i>	8	8	4	1	7	5.60	3.05	0	0	1	0	0	0.20	0.45
<i>Eteone spetsbergensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Exogone gemmifera</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Fabriciola berkeleyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Fartulum</i>	54	44	4	0	0	20.40	26.40	0	39	0	1	0	8.00	17.33
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	2	0	0	0	0	0.40	0.89
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycera capitata</i>	2	1	0	0	1	0.80	0.84	1	0	0	0	0	0.20	0.45
<i>Glycinde picta</i>	0	0	1	6	1	1.60	2.51	0	1	0	0	1	0.40	0.55
<i>Golfingia procera</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Harmothoe imbricata</i>	0	0	5	3	2	2.00	2.12	3	0	0	0	0	0.60	1.34
<i>Ianiropsis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lagunogammarus setosus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lepidonotus squamatus</i>	0	3	3	10	8	4.80	4.09	2	3	0	4	2	2.20	1.48
<i>Leptochelia savignyi</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Leptosynapta</i>	3	4	4	0	0	2.20	2.05	0	0	0	0	0	0.00	0.00
<i>Levinsenia gracilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lumbrineris*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma balthica</i>	0	0	0	0	2	0.40	0.89	0	2	0	0	2	0.80	1.10
<i>Macoma inquinata</i>	0	1	6	5	12	4.80	4.76	3	2	7	2	0	2.80	2.59
<i>Mediomastus californiensis</i>	1	0	1	0	0	0.40	0.55	0	0	0	0	0	0.00	0.00
<i>Melita californica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita desdichada</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Mysella tumida</i>	51	35	57	37	92	54.40	22.97	9	22	31	10	8	16.00	10.12
<i>Naineris quadricuspida</i>	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Neoamphitrite robusta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Nereis vexillosa</i>	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Odostomia</i>	0	5	2	0	4	2.20	2.28	7	0	1	3	1	2.40	2.79
<i>Ophelia limacina</i>	4	4	0	0	0	1.60	2.19	0	1	0	0	0	0.20	0.45
<i>Orbiniella nuda</i>	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Owenia fusiformis	0	0	0	0	0	0.00	0.00	3	5	1	0	1	2.00	2.00
Paramoera sp. 2	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pectinaria granulata	0	2	2	2	3	1.80	1.10	7	10	8	5	4	6.80	2.39
Pherusa plumosa	0	0	0	0	0	0.00	0.00	1	0	2	0	0	0.60	0.89
Pholoe minuta	6	1	2	0	5	2.80	2.59	0	1	2	3	2	1.60	1.14
Phoronida	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45
Polydora brachycephala	0	2	1	0	0	0.60	0.89	0	0	0	0	1	0.20	0.45
Polydora quadrilobata	0	0	0	1	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio cirrifera	2	3	0	0	0	1.00	1.41	0	3	1	0	0	0.80	1.30
Prionospio steenstrupi	0	0	1	0	0	0.20	0.45	1	0	0	0	0	0.20	0.45
Protodorvillea gracilis	1	0	0	0	0	0.20	0.45	1	1	0	0	0	0.40	0.55
Protothaca staminea	4	1	2	16	6	5.80	6.02	5	13	4	19	18	11.80	7.05
Pygospio elegans	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rhynchospius glutaeus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rissoidae*	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Saxidomus gigantea	0	0	0	3	1	0.80	1.30	0	0	0	0	0	0.00	0.00
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	0	0	0	1	1	0.40	0.55
Scoloplos acmeceps	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.20	0.45
Scoloplos armiger	0	2	5	0	6	2.60	2.79	0	0	0	0	0	0.00	0.00
Sphaerosyllis pirifera	0	5	0	1	0	1.20	2.17	0	0	0	0	0	0.00	0.00
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spio filicornis	0	0	1	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Syllis elongata	0	0	1	1	1	0.60	0.55	2	2	1	0	0	1.00	1.00
Tellina modesta	0	0	0	0	0	0.00	0.00	0	0	0	1	2	0.60	0.89
Tharyx multifilis	5	4	7	2	0	3.60	2.70	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Number of Individuals	288	168	162	102	173	178.60	67.56	56	138	73	54	72	78.60	34.35
Number of Taxa	17	23	22	19	23	20.80	2.68	15	21	14	13	17	16.00	3.16
H'	2	2	2	2	2	2.10	0.28	2	2	2	2	2	2.21	0.17
J	1	2	2	2	1	1.59	0.17	2	2	2	2	2	1.84	0.13
Total No. of Taxa						43.00							35.00	
Composite H'						2.43							2.67	
Composite J						1.49							1.73	
Taxa deleted or lumped into a species														
Acarina	0	0	1	12	8	0.00	21.00	0	0	0	0	1	0.00	1.00
Anurida maritima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asciidiacea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asellota	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asteroidea	1	0	0	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Bivalvia	0	0	1	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Bryozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer magister	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer oregonensis	1	0	0	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Caprellidae	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Chironomidae	0	2	1	0	0	0.00	3.00	0	0	0	0	0	0.00	0.00
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Collisella pelta	0	2	0	0	0	0.00	2.00	0	0	0	0	0	0.00	0.00
Cottidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Demospongiae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diosaccidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diptera	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Echinoida	0	0	0	1	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Gammaridea	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Gastropoda	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Gnorimosphaeroma oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Goniadidae	0	0	0	0	0	0.00	0.00	0	0	4	0	0	0.00	4.00
Harpacticoida	1	0	1	8	2	0.00	12.00	0	2	0	0	0	0.00	2.00
Harpacticus uniremis	18	54	11	4	11	1.00	98.00	0	32	0	3	0	1.00	35.00
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	0	0	2	1	0	0.00	3.00
Hiatella arctica	5	1	2	1	2	2.20	1.64	0	4	0	1	1	1.20	1.64
Hydrozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Idotea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Lacuna	2	6	0	5	0	0.00	13.00	0	1	2	0	0	0.00	3.00
Laophontidae	0	0	0	0	0	2.00	0.00	0	0	0	0	0	2.00	0.00
Littorina scutulata	0	1	0	2	1	18.00	4.00	3	5	18	5	20	18.00	51.00
Littorina sitkana	0	0	0	0	0	5.00	0.00	0	0	0	0	0	5.00	0.00
Lottiidae	0	0	0	0	0	20.00	0.00	18	24	1	5	4	20.00	52.00
Lumbrineris	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Macoma	0	0	0	0	0	0.00	0.00	2	0	0	0	0	0.00	2.00
Mactridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Margarites marginatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Muscidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Nematoda	12	78	24	29	49	99.00	192.00	3	3	1	2	1	99.00	10.00
Nemertea	4	11	1	0	0	32.00	16.00	1	6	5	5	1	32.00	18.00
Nucella lima	0	0	0	0	0	0.00	0.00	2	1	0	0	0	0.00	3.00
Nudibranchia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Oligochaeta	5	21	9	1	3	171.00	39.00	0	0	5	1	1	171.00	7.00
Oweniidae	0	1	0	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Paguridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pagurus	0	0	0	0	0	7.00	0.00	1	2	5	0	1	7.00	9.00
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Podocopina	2	0	0	0	1	0.00	3.00	0	0	0	0	0	0.00	0.00
Polychaeta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polynoidae	1	4	0	8	0	0.00	13.00	4	2	2	0	2	0.00	10.00

Table D-2 (continued).

Taxon	Outside Bay							Sheep Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Polyplacophora	0	1	1	3	0	2.00	5.00	0	0	0	0	0	2.00	0.00
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.00	1.00
Scoloplos	0	0	0	1	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Spionidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spirorbis	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Staphylinidae	0	0	1	0	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Stichaeidae	0	1	0	0	0	1.00	1.00	0	0	0	0	0	1.00	0.00
Strongylocentrotus	0	5	0	1	0	3.00	6.00	0	0	0	0	0	3.00	0.00
Syllidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Turbellaria	0	0	0	1	0	0.00	1.00	0	0	0	0	0	0.00	0.00
Turtonia minuta	2	5	0	3	9	0.00	19.00	0	0	0	0	0	0.00	0.00
Valvifera	0	0	0	0	0	1.00	0.00	0	0	0	0	0	1.00	0.00
Veneridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Acnira catherina	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Aglaja	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Allorchestes angustus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Alvania compacta	0	0	0	0	2	0.40	0.89	4	18	2	0	1	5.00	7.42
Ampharetidae*	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Ampithoe kussakina	0	0	0	0	1	0.20	0.45	0	2	0	0	0	0.40	0.89
Ampithoe dalli	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Anthozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Armandia brevis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asabellides sibirica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Barantolla americana	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bittium	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Boccardiella hamata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Capitella capitata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Chiridota	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cingula sp 1	0	1	0	0	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Cingula sp 2	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cirratulidae*	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cirratulus spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Clinocardium ciliatum	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Corophium brevis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cryptomya californica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cumella vulgaris	4	2	0	0	1	1.40	1.67	0	0	0	0	0	0.00	0.00
Diplodonta aleutica	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Eteone*	0	0	0	0	0	0.00	0.00	0	0	1	0	1	0.40	0.55
Eteone longa	0	0	0	2	0	0.40	0.89	0	2	1	0	0	0.60	0.89
Eteone spetsbergensis	0	0	0	0	1	0.20	0.45	0	0	0	2	3	1.00	1.41
Exogone gemmifera	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
<i>Fabriciola berkeleyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Fartulum</i>	0	0	0	0	0	0.00	0.00	3	0	1	0	0	0.80	1.30
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	1	0	0.20	0.45
<i>Glycera capitata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Glycinde picta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Golfingia procera</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Harmothoe imbricata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Ianiropsis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lagunogammarus setosus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leptochelia savignyi</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Leptosynapta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Levinsenia gracilis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Lumbrineris*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma balthica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Macoma inquinata</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Mediomastus californiensis</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita californica</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita desdichada</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Melita*</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Mysella tumida</i>	0	0	3	0	0	0.60	1.34	0	0	0	0	2	0.40	0.89
<i>Naineris quadricuspida</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Neoamphitrite robusta</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Nereis vexillosa</i>	0	3	4	0	0	1.40	1.95	0	0	1	0	0	0.20	0.45
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	1	0.20	0.45
<i>Odostomia</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Ophelia limacina</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
<i>Orbiniella nuda</i>	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Owenia fusiformis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Paramoera sp. 2	13	33	7	3	4	12.00	12.37	0	13	14	9	3	7.80	6.14
Pectinaria granulata	0	0	0	0	0	0.00	0.00	0	1	0	0	0	0.20	0.45
Pherusa plumosa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pholoe minuta	0	2	0	0	0	0.40	0.89	0	0	0	0	0	0.00	0.00
Phoronida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polydora brachycephala	0	0	0	1	0	0.20	0.45	0	0	0	0	0	0.00	0.00
Polydora quadrilobata	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	0	0	9	10	4	4.60	4.77
Prionospio cirrifera	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Prionospio steenstrupi	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protodorvillea gracilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Protothaca staminea	0	0	0	1	0	0.20	0.45	0	0	1	0	1	0.40	0.55
Pygospio elegans	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rhynchospio glutaea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Rissoidae*	0	0	0	0	0	0.00	0.00	1	0	0	0	0	0.20	0.45
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	0	0	70	0	3	14.60	31.00
Saxidomus gigantea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos acmeceps	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos armiger	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Sphaerosyllis pirifera	0	0	0	0	1	0.20	0.45	0	0	0	0	0	0.00	0.00
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	0	49	9	8	2	13.60	20.16
Spio filicornis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Syllis elongata	0	0	0	0	0	0.00	0.00	0	1	0	0	2	0.60	0.89
Tellina modesta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Tharyx multifilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Number of Individuals	17	41	14	7	10	17.80	13.52	8	86	109	30	23	51.20	43.77
Number of Taxa	2	5	3	4	6	4.00	1.58	3	7	10	5	11	7.20	3.35
H'	1	1	1	1	2	1.04	0.42	1	1	1	1	2	1.42	0.50
J	2	1	2	2	2	1.85	0.46	2	1	1	2	2	1.78	0.41
Total No. of Taxa						13.00							18.00	
Composite H'						1.34							1.95	
Composite J						1.20							1.55	
Taxa deleted or lumped into a species														
Acarina	0	0	2	0	1	0.00	0.00	0	0	0	0	2	0.00	0.00
Anurida maritima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asciidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Asellota	0	0	0	2	0	0.00	0.00	0	0	0	0	1	0.00	0.00
Asteroidea	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bivalvia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Bryozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cancer magister	0	0	0	0	0	0.00	0.00	0	0	0	0	1	0.00	0.00
Cancer oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Caprellidae	0	0	0	0	0	1.00	1.00	0	0	0	0	0	1.00	1.00
Chironomidae	0	2	1	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Collisella pelta	0	0	0	2	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Cottidae	0	0	1	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Demospongiae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diosaccidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Diptera	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Echinoida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Gammaridea	0	0	0	0	0	1.00	1.00	0	0	0	0	0	1.00	1.00
Gastropoda	0	0	0	0	0	0.00	0.00	2	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Gnorimosphaeroma oregonensis	12	9	4	1	0	0.00	0.00	2	106	17	24	24	0.00	0.00
Goniadidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Harpacticoida	0	0	1	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Harpacticus uniremis	0	0	0	0	0	1.00	1.00	0	0	0	0	0	1.00	1.00
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Hiatella arctica	0	0	0	0	0	0.00	0.00	3	0	0	0	0	0.60	1.34
Hydrozoa	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Idotea	0	0	1	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Lacuna	0	0	0	0	0	0.00	0.00	0	0	2	0	2	0.00	0.00
Laophontidae	0	0	0	0	0	2.00	2.00	0	0	0	0	0	2.00	2.00
Littorina scutulata	18	13	8	4	3	18.00	18.00	7	40	13	3	0	18.00	18.00
Littorina sitkana	4	0	0	3	1	5.00	5.00	19	29	15	0	0	5.00	5.00
Lottiidae	0	0	0	0	1	20.00	20.00	0	0	0	0	0	20.00	20.00
Lumbrineris	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Macoma	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Mactridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Margarites marginatus	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Muscidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Nematoda	4	6	3	45	18	99.00	99.00	5	9	110	7	74	99.00	99.00
Nemertea	0	0	0	18	5	32.00	32.00	0	1	4	2	18	32.00	32.00
Nucella lima	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Nudibranchia	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Oligochaeta	23	28	46	0	1	171.00	171.00	0	0	0	1	2	171.00	171.00
Oweniidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Paguridae	0	0	0	1	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Pagurus	1	1	0	0	1	7.00	7.00	0	2	1	0	0	7.00	7.00
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	0	1	0	1	1	0.00	0.00
Podocopina	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polychaeta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Polynoidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued):

Taxon	Shelter Bay							Sleepy Bay						
	1	2	3	4	5	Ave.	S.D.	1	2	3	4	5	Ave.	S.D.
Polyplacophora	0	0	0	0	0	2.00	2.00	0	0	0	0	0	2.00	2.00
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Scoloplos	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spionidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Spirorbis	0	0	0	0	0	1.00	1.00	0	0	0	0	0	1.00	1.00
Staphylinidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Stichaeidae	0	0	0	0	0	1.00	1.00	0	1	0	0	0	1.00	1.00
Strongylocentrotus	0	0	0	0	0	3.00	3.00	0	0	0	0	0	3.00	3.00
Syllidae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Turbellaria	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Turtonia minuta	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00
Valvifera	0	0	0	0	0	1.00	1.00	0	0	0	0	3	1.00	1.00
Veneridae	0	0	0	0	0	0.00	0.00	0	0	0	0	0	0.00	0.00

Table D-2 (continued).

Taxon	Snug Harbor							Number of cores at which collected			Percent of samples	
	1	2	3	4	5	Ave.	S.D.	Grand total	Ave.	S.D.	1	2
<i>Acmira catherina</i>	0	0	0	0	0	0.00	0.00	1	0.03	0.13	1	2
<i>Aglaja</i>	0	0	0	0	0	0.00	0.00	1	0.08	0.13	1	2
<i>Allorchestes angustus</i>	8	0	1	10	0	3.80	4.82	27	1.92	1.81	6	11
<i>Alvania compacta</i>	1	0	2	0	2	1.00	1.00	264	4.40	7.34	36	65
<i>Ampharetidae*</i>	0	0	0	0	0	0.00	0.00	19	0.98	2.08	2	4
<i>Ampithoe kussakina</i>	22	7	11	24	16	16.00	7.18	156	2.60	5.64	20	36
<i>Ampithoe dalli</i>	0	0	0	0	0	0.00	0.00	104	1.73	11.96	4	7
<i>Anthozoa</i>	0	0	0	0	0	0.00	0.00	3	0.10	0.30	2	4
<i>Armandia brevis</i>	0	0	0	0	0	0.00	0.00	34	0.57	2.26	12	22
<i>Asabellides sibirica</i>	0	0	0	0	0	0.00	0.00	1	0.07	0.13	1	2
<i>Barantolla americana</i>	0	0	0	0	0	0.00	0.00	15	0.25	0.65	10	18
<i>Bittium</i>	0	0	1	1	0	0.40	0.55	2	0.03	0.19	2	4
<i>Boccardiella hamata</i>	0	0	0	0	0	0.00	0.00	4	0.07	0.54	1	2
<i>Capitella capitata</i>	0	0	0	0	0	0.00	0.00	10	0.23	0.51	7	13
<i>Chiridota</i>	0	0	0	0	0	0.00	0.00	6	5.55	0.37	5	9
<i>Cingula sp 1</i>	1	0	0	0	0	0.20	0.45	652	12.88	29.57	17	31
<i>Cingula sp 2</i>	0	0	0	0	0	0.00	0.00	121	2.02	10.60	5	9
<i>Cirratulidae*</i>	0	0	0	0	0	0.00	0.00	1	0.02	0.13	1	
<i>Cirratulus spectabilis</i>	1	0	0	0	1	0.40	0.55	4	0.07	0.33	3	5
<i>Clinocardium ciliatum</i>	0	0	0	0	0	0.00	0.00	1	1.88	0.13	1	2
<i>Corophium brevis</i>	0	0	0	0	0	0.00	0.00	171	2.85	10.43	10	18
<i>Cryptomya californica</i>	0	0	0	0	0	0.00	0.00	2	3.00	0.19	2	4
<i>Cumella vulgaris</i>	46	3	32	8	23	22.40	17.56	431	7.18	13.68	32	58
<i>Diplodonta aleutica</i>	0	0	0	0	0	0.00	0.00	4	0.07	0.38	2	4
<i>Eteone*</i>	0	1	0	1	0	0.40	0.55	30	0.85	1.45	15	27
<i>Eteone longa</i>	0	4	4	8	2	3.60	2.97	165	2.87	4.51	29	53
<i>Eteone spetsbergensis</i>	0	0	0	0	0	0.00	0.00	19	0.37	1.09	9	16
<i>Exogone gemmifera</i>	0	0	0	0	0	0.00	0.00	22	0.38	2.20	4	7

Table D-2 (continued).

Taxon	Snug Harbor							Grand total	Ave.	S.D.	Number of cores at which collected		Percent of samples
	1	2	3	4	5	Ave.	S.D.				8	15	
<i>Fabriciola berkeleyi</i>	18	11	13	11	19	14.40	3.85	76	1.78	4.30	8	15	
<i>Fartulum</i>	16	5	10	0	68	19.80	27.59	312	5.20	14.23	20	36	
<i>Flabelligeridae</i>	0	0	0	0	0	0.00	0.00	2	0.03	0.27	1	2	
<i>Gammaroporeia alaskensis</i>	0	0	0	0	0	0.00	0.00	1	0.02	0.13	1	2	
<i>Glycera capitata</i>	0	0	0	1	0	0.20	0.45	13	0.25	0.61	9	16	
<i>Glycinde picta</i>	0	0	0	0	0	0.00	0.00	13	0.22	0.86	8	15	
<i>Golfingia procera</i>	0	0	0	0	0	0.00	0.00	7	0.15	0.51	4	7	
<i>Harmothoe imbricata</i>	0	0	0	0	0	0.00	0.00	16	0.27	0.92	7	13	
<i>Ianiropsis</i>	0	0	0	0	0	0.00	0.00	14	0.23	1.76	2	4	
<i>Lagunogammarus setosus</i>	0	0	0	0	0	0.00	0.00	6	0.12	0.81	1	2	
<i>Leitoscoloplos pugettensis</i>	0	0	0	0	0	0.00	0.00	1	0.05	0.13	1	2	
<i>Lepidonotus squamatus</i>	0	0	0	0	0	0.00	0.00	40	0.67	1.89	12	22	
<i>Leptochelia savignyi</i>	0	23	1	0	0	4.80	10.18	46	0.77	3.54	7	13	
<i>Leptosynapta</i>	0	0	0	0	0	0.00	0.00	18	0.30	1.25	4	7	
<i>Levinsenia gracilis</i>	0	0	0	0	0	0.00	0.00	3	0.05	0.23	3	5	
<i>Lumbrineris*</i>	0	0	0	0	0	0.00	0.00	2	0.75	0.19	2	4	
<i>Macoma balthica</i>	0	0	0	0	0	0.00	0.00	105	2.03	3.75	19	35	
<i>Macoma inquinata</i>	0	0	0	0	0	0.00	0.00	117	1.98	4.45	18	33	
<i>Mediomastus californiensis</i>	0	1	0	1	0	0.40	0.55	7	0.12	0.39	6	11	
<i>Melita californica</i>	0	0	0	0	0	0.00	0.00	26	0.43	2.98	3	5	
<i>Melita desdichada</i>	0	0	0	0	0	0.00	0.00	1	0.02	0.13	1	2	
<i>Melita*</i>	0	0	0	0	0	0.00	0.00	1	0.82	0.13	1	2	
<i>Mysella tumida</i>	0	1	0	0	2	0.60	0.89	582	9.70	18.12	30	55	
<i>Naineris quadricuspida</i>	0	0	0	0	0	0.00	0.00	18	0.30	2.29	2	4	
<i>Neoamphitrite robusta</i>	0	0	0	0	0	0.00	0.00	1	0.05	0.13	1	2	
<i>Nereis vexillosa</i>	0	0	0	0	0	0.00	0.00	32	0.53	1.20	15	27	
<i>Nerillidae</i>	0	0	0	0	0	0.00	0.00	1	0.40	0.13	1	2	
<i>Odostomia</i>	0	0	0	0	0	0.00	0.00	64	1.07	2.32	18	33	
<i>Ophelia limacina</i>	0	0	0	0	0	0.00	0.00	9	0.15	0.76	3	5	
<i>Orbiniella nuda</i>	0	0	0	0	0	0.00	0.00	14	0.23	1.13	6	11	

Table D-2 (continued).

Taxon	Snug Harbor							Number of cores at which collected			Percent of samples	
	1	2	3	4	5	Ave.	S.D.	Grand total	Ave.	S.D.	5	9
Owenia fusiformis	0	0	0	0	0	0.00	0.00	11	0.18	0.80	5	9
Paramoera sp. 2	0	0	0	0	0	0.00	0.00	121	2.03	5.54	15	27
Pectinaria granulata	0	0	0	0	0	0.00	0.00	63	1.05	2.48	15	27
Pherusa plumosa	0	0	0	0	0	0.00	0.00	3	0.17	0.30	2	4
Pholoe minuta	55	5	33	0	5	19.60	23.68	246	4.10	9.63	28	51
Phoronida	0	0	0	0	0	0.00	0.00	1	0.08	0.13	1	2
Polydora brachycephala	0	0	0	0	0	0.00	0.00	20	0.33	1.28	10	18
Polydora quadrilobata	0	0	0	0	0	0.00	0.00	6	0.10	0.37	5	9
Pontogeneia ivanovi	0	0	0	0	0	0.00	0.00	23	0.38	1.86	3	5
Prionospio cirrifera	0	0	0	0	0	0.00	0.00	18	0.30	0.90	8	15
Prionospio steenstrupi	0	0	0	0	0	0.00	0.00	6	0.10	0.37	5	9
Protodorvillea gracilis	0	0	0	0	0	0.00	0.00	3	0.05	0.23	3	5
Protothaca staminea	1	0	0	0	0	0.20	0.45	208	3.47	6.56	28	51
Pygospio elegans	0	0	0	0	0	0.00	0.00	1	0.02	0.13	1	2
Rhynchospio glutaea	0	0	0	0	0	0.00	0.00	4	11.37	0.38	2	4
Rissoidae*	0	0	0	0	0	0.00	0.00	705	11.75	49.57	11	20
Saccocirrus eroticus	0	0	0	0	0	0.00	0.00	77	1.28	9.44	5	9
Saxidomus gigantea	0	0	0	0	0	0.00	0.00	20	0.33	0.91	9	16
Scolelepis squamatus	0	0	0	0	0	0.00	0.00	2	0.03	0.19	2	4
Scoloplos acmeceps	0	0	0	0	0	0.00	0.00	1	0.02	0.13	1	2
Scoloplos armiger	0	0	0	0	0	0.00	0.00	13	0.25	1.07	3	5
Sphaerosyllis pirifera	0	0	0	0	0	0.00	0.00	36	0.60	2.66	8	15
Spinulogammarus subcarinatus	0	0	0	0	0	0.00	0.00	68	1.15	6.76	4	7
Spio filicornis	0	0	0	0	0	0.00	0.00	21	0.35	1.42	6	11
Syllis elongata	0	0	1	0	0	0.20	0.45	46	0.77	4.05	12	22
Tellina modesta	0	0	0	0	0	0.00	0.00	3	0.05	0.30	2	4
Tharyx multifilis	0	0	0	0	0	0.00	0.00	18	0.33	1.28	4	7

Table D-2 (continued).

Taxon	Snug Harbor							Grand total	Ave.	S.D.	Number of cores at which collected		Percent of samples
	1	2	3	4	5	Ave.	S.D.				cores at which collected	samples	
Number of Individuals	169	61	109	65	138	108.40	46.58	5562	94.22	101.35			
Number of Taxa	10	10	11	9	9	9.80	0.84	85	11.01	6.39			
H'	2	2	2	2	2	1.72	0.13			1.73	0.47		
J	2	2	2	2	2	1.74	0.11			1.76	0.29		
Total No. of Taxa						18.00							
Composite H'						2.07							
Composite J						1.65							
Taxa deleted or lumped into a species													
Acarina	366	7	39	56	140	0.00	608.00	894	0.00	608.00	22		
Anurida maritima	1	1	3	0	7	2.40	2.79	23	0.47	1.26	9	0	
Asciidiacea	0	0	0	0	0	0.00	0.00	3	0.00	0.00	2		
Asellota	0	2	4	3	0	0.00	9.00	13	0.00	9.00	6		
Asteroidea	1	3	1	5	0	0.00	10.00	11	0.00	10.00	5		
Bivalvia	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Bryozoa	0	5	0	0	0	0.00	5.00	5	0.00	5.00	1		
Cancer	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Cancer magister	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Cancer oregonensis	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Caprellidae	0	0	0	0	0	1.00	0.00	6	1.00	0.00	4		
Chironomidae	685	6	174	29	103	0.00	997.00	1112	0.00	997.00	21		
Cirratulus cirratus- ID changed to C. spectabilis	0	0	0	0	1	0.20	0.45	1	0.02	0.13	1	0	
Collisella pelta	0	0	0	0	1	0.00	1.00	8	0.00	1.00	6		
Cottidae	0	0	0	0	0	0.00	0.00	2	0.00	0.00	2		
Demospongiae	0	0	0	0	0	0.00	0.00	2	0.00	0.00	1		
Diosaccidae	0	0	0	0	0	0.00	0.00	7	0.00	0.00	1		
Diptera	2	0	0	0	0	0.00	2.00	14	0.00	2.00	6		
Echinoida	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Gammaridea	0	0	4	0	0	1.00	4.00	9	1.00	4.00	5		
Gastropoda	0	1	0	0	0	0.00	1.00	7	0.00	1.00	3		

Table D-2 (continued).

Taxon	Snug Harbor							Grand total	Ave.	S.D.	Number of cores at which collected		Percent of samples
	1	2	3	4	5	Ave.	S.D.				collected		
Gnorimosphaeroma oregonensis	2	0	0	0	0	0.00	2.00	213	0.00	2.00	17		
Goniadidae	0	0	0	0	0	0.00	0.00	4	0.00	0.00	1		
Harpacticoida	342	0	6	3	3	0.00	354.00	534	0.00	354.00	19		
Harpacticus uniremis	0	1	0	0	0	1.00	1.00	633	1.00	1.00	18		
Hemigrapsus oregonensis	0	0	0	0	0	0.00	0.00	3	0.00	0.00	2		
Hiatella arctica	1	0	0	0	0	0.20	0.45	85	1.40	3.14	21		0
Hydrozoa	0	0	0	0	0	0.00	0.00	8	0.00	0.00	2		
Idotea	0	0	0	0	0	0.00	0.00	2	0.00	0.00	2		
Lacuna	15	0	2	0	16	0.00	33.00	127	0.00	33.00	20		
Laophontidae	0	0	0	0	0	2.00	0.00	2	2.00	0.00	1		
Littorina scutulata	1	0	0	0	0	18.00	1.00	438	18.00	1.00	41		
Littorina sitkana	0	0	0	0	0	5.00	0.00	301	5.00	0.00	23		
Lottiidae	0	0	0	0	0	20.00	0.00	160	20.00	0.00	23		
Lumbrineris	0	0	0	0	0	0.00	0.00	2	0.00	0.00	2		
Macoma	1	0	0	0	0	0.00	1.00	4	0.00	1.00	3		
Mactridae	0	2	0	0	0	0.00	2.00	2	0.00	2.00	1		
Margarites marginatus	2	2	13	1	2	0.00	20.00	23	0.00	20.00	7		
Muscidae	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Nematoda	530	11	73	50	172	99.00	836.00	2356	99.00	836.00	53		
Nemertea	1	2	4	2	2	32.00	11.00	555	32.00	11.00	41		
Nucella lima	0	0	0	0	0	0.00	0.00	7	0.00	0.00	5		
Nudibranchia	0	0	0	0	0	0.00	0.00	53	0.00	0.00	6		
Oligochaeta	126	2	131	21	29	171.00	309.00	1424	171.00	309.00	45		
Oweniidae	0	0	0	0	0	0.00	0.00	2	0.00	0.00	2		
Paguridae	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1		
Pagurus	1	0	0	1	0	7.00	2.00	42	7.00	2.00	22		
Pentidotea wosnesenskii	0	0	0	0	0	0.00	0.00	3	0.00	0.00	3		
Podocopina	378	0	5	2	42	0.00	427.00	539	0.00	427.00	15		
Polychaeta	0	0	0	0	0	0.00	0.00	2	0.00	0.00	2		
Polynoidae	0	0	0	0	0	0.00	0.00	23	0.00	0.00	7		

Table D-2 (continued).

Taxon	Snug Harbor							Grand total	Number of cores at which collected			Percent of samples
	1	2	3	4	5	Ave.	S.D.		Ave.	S.D.		
Polyplacophora	0	2	0	9	0	2.00	11.00	34	2.00	11.00	10	
Pseudoscorpionida	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1	
Scoloplos	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1	
Spionidae	0	0	0	0	0	0.00	0.00	3	0.00	0.00	2	
Spirorbis	0	0	0	0	0	1.00	0.00	2	1.00	0.00	2	
Staphylinidae	0	0	0	0	0	0.00	0.00	3	0.00	0.00	3	
Stichaeidae	0	0	0	0	0	1.00	0.00	4	1.00	0.00	4	
Strongylocentrotus	0	0	0	0	0	3.00	0.00	14	3.00	0.00	8	
Syllidae	0	0	0	0	0	0.00	0.00	1	0.00	0.00	1	
Turbellaria	0	0	0	0	0	0.00	0.00	5	0.00	0.00	3	
Turtonia minuta	516	7	147	62	93	0.00	825.00	5557	0.00	825.00	22	
Valvifera	5	0	0	0	5	1.00	10.00	14	1.00	10.00	4	
Veneridae	1	0	0	0	0	0.00	1.00	1	0.00	1.00	1	

00031016\NOAA1992.RPT\TABLES\D-2.XLS

**Table D-3 Average number of infaunal taxa in cores from lower intertidal zone at sites sampled in Prince William Sound, July 1992.**

	Category 1					
	Site			Mean	S.D.	Percent Rank
	Crab Bay	Outside Bay	Sheep Bay			
Allorchestes angustus	0.0	0.0	0.0	0.00	0.00	0.0 41
Alvania compacta	0.6	9.0	7.8	5.80	4.54	5.2 6
Amphareidae	0.0	0.0	0.0	0.00	0.00	0.0 41
Ampithoe dalli	20.8	0.0	0.0	6.93	12.01	6.2 4
Ampithoe kussakina	0.2	2.0	4.0	2.07	1.90	1.8 13
Armandia brevis	0.0	0.8	0.2	0.33	0.42	0.3 31
Barantolla americana	1.0	0.2	0.2	0.47	0.46	0.4 27
Capitella capitata	0.2	0.6	0.4	0.40	0.20	0.4 30
Cingula sp. 1	24.4	39.8	0.0	21.40	20.07	19.1 2
Cingula sp. 2	0.0	0.0	0.0	0.00	0.00	0.0 41
Corophium brevis	0.0	0.0	0.0	0.00	0.00	0.0 41
Cumella vulgaris	12.4	0.4	4.4	5.73	6.11	5.1 7
Eteone	3.2	0.6	0.2	1.33	1.63	1.2 17
Eteone longa	1.4	5.6	0.2	2.40	2.84	2.1 11
Eteone spetsbergensis	0.6	0.0	0.0	0.20	0.35	0.2 34
Exogone gemmifera	0.0	0.0	0.0	0.00	0.00	0.0 41
Fabriciola berkeleyi	0.4	0.0	0.0	0.13	0.23	0.1 35
Fartulum	0.0	20.4	8.0	9.47	10.28	8.4 3
Glycera capitata	0.0	0.8	0.2	0.33	0.42	0.3 31
Glycinde picta	0.0	1.6	0.4	0.67	0.83	0.6 22
Harmothoe imbricata	0.0	2.0	0.6	0.87	1.03	0.8 19
Ianiropsis	0.0	0.0	0.0	0.00	0.00	0.0 41
Lepidonotus squamatus	0.0	4.8	2.2	2.33	2.40	2.1 12
Leptocheilia savignyi	0.0	0.2	0.0	0.07	0.12	0.1 37
Leptosynapta	0.0	2.2	0.0	0.73	1.27	0.7 21
Macoma balthica	7.0	0.4	0.8	2.73	3.70	2.4 9
Macoma inquinata	0.2	4.8	2.8	2.60	2.31	2.3 10
Melita californica	0.0	0.0	0.0	0.00	0.00	0.0 41
Mysella tumida	0.4	54.4	16.0	23.60	27.79	21.0 1
Naineris quadricuspida	0.0	0.2	0.0	0.07	0.12	0.1 37
Nereis vexillosa	0.0	0.2	0.0	0.07	0.12	0.1 37
Odostomia	0.0	2.2	2.4	1.53	1.33	1.4 14
Ophelia limacina	0.0	1.6	0.2	0.60	0.87	0.5 25
Orbiniella nuda	0.0	0.0	0.2	0.07	0.12	0.1 37
Owenia fusiformis	0.0	0.0	2.0	0.67	1.15	0.6 24
Paramoera sp. 3	0.0	0.0	0.0	0.00	0.00	0.0 41
Pectinaria granulata	0.0	1.8	6.8	2.87	3.52	2.6 8
Pholoe minuta	0.0	2.8	1.6	1.47	1.40	1.3 15
Polydora brachycephala	0.4	0.6	0.2	0.40	0.20	0.4 29
Pontogeneia ivanovi	0.0	0.0	0.0	0.00	0.00	0.0 41
Prionospio cirrifera	0.2	1.0	0.8	0.67	0.42	0.6 23
Protolhaca staminea	0.6	5.8	11.8	6.07	5.60	5.4 5
Rissoidae	4.2	0.0	0.0	1.40	2.42	1.2 16
Saccocirrus eroticus	0.0	0.0	0.0	0.00	0.00	0.0 41
Saxidomus gigantea	0.0	0.8	0.0	0.27	0.46	0.2 33
Scoloplos armiger	0.0	2.6	0.0	0.87	1.50	0.8 20
Sphaerosyllis pififera	0.0	1.2	0.0	0.40	0.69	0.4 28
Spinulogammarus subcarinatus	0.0	0.0	0.0	0.00	0.00	0.0 41
Spio filicornis	0.2	0.2	0.0	0.13	0.12	0.1 35
Syllis elongata	0.0	0.6	1.0	0.53	0.50	0.5 26
Tharyx multifilis	0.0	3.6	0.0	1.20	2.08	1.1 18
 N, as average number of macroinfauna specimens per core						
79.6						
 S, as composite number of macroinfaunal taxa in cores from site						
23.0						
 Mean S, based on no. of taxa in each core						
10.4						
 H', based on composite taxa from site						
2.0						
 Mean H', based on species diversity calculated for each core						
1.7						

Table D-3 (continued).

	Category 2						
	Site				Mean	S.D.	Percent Rank
	Block Island	Herring Bay	Mussel Beach	Snug Harbor			
<i>Allorchestes angustus</i>	0.8	0.8	0.0	3.8	1.35	1.68	0.8 21
<i>Alvania compacta</i>	4.0	17.6	4.4	1.0	6.75	7.39	4.2 6
<i>Ampharetidae</i>	0.0	0.0	3.8	0.0	0.95	1.90	0.6 24
<i>Ampithoe dalli</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Ampithoe kussakina</i>	0.0	8.0	0.4	16.0	6.10	7.56	3.8 9
<i>Armandia brevis</i>	1.0	0.6	4.2	0.0	1.45	1.88	0.9 20
<i>Barantolla americana</i>	0.8	0.6	0.2	0.0	0.40	0.37	0.2 32
<i>Capitella capitata</i>	0.4	0.0	0.0	0.0	0.10	0.20	0.1 40
<i>Cingula sp. 1</i>	0.0	65.4	0.0	0.2	16.40	32.67	10.2 2
<i>Cingula sp. 2</i>	0.0	24.2	0.0	0.0	6.05	12.10	3.7 10
<i>Ceropodium brevis</i>	0.0	22.4	0.0	0.0	5.60	11.20	3.5 12
<i>Cumella vulgaris</i>	5.0	35.6	0.2	22.4	15.80	16.28	9.8 3
<i>Eteone</i>	0.2	0.0	0.2	0.4	0.20	0.16	0.1 37
<i>Eteone longa</i>	9.6	4.2	7.4	3.6	6.20	2.81	3.8 8
<i>Eteone spetsbergensis</i>	0.0	1.4	0.0	0.0	0.35	0.70	0.2 34
<i>Exogone gemmifera</i>	3.2	0.6	0.6	0.0	1.10	1.43	0.7 23
<i>Fabrichiola berkeleyi</i>	0.0	0.2	0.2	14.4	3.70	7.13	2.3 14
<i>Fartulum</i>	0.0	6.2	6.0	19.8	8.00	8.38	5.0 5
<i>Glycera capitata</i>	1.2	0.0	0.2	0.2	0.40	0.54	0.2 31
<i>Glycinde picta</i>	0.2	0.4	0.0	0.0	0.15	0.19	0.1 38
<i>Harmothoe imbricata</i>	0.2	0.4	0.0	0.0	0.15	0.19	0.1 38
<i>Ianiropsis</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Lepidonotus squamatus</i>	0.6	0.4	0.0	0.0	0.25	0.30	0.2 36
<i>Leptochelia savignyi</i>	0.0	0.0	3.8	4.8	2.15	2.52	1.3 16
<i>Leptosynapta</i>	0.0	0.0	1.4	0.0	0.35	0.70	0.2 34
<i>Macoma balthica</i>	2.4	8.6	0.0	0.0	2.75	4.06	1.7 15
<i>Macoma inquinata</i>	12.0	3.4	0.2	0.0	3.90	5.62	2.4 13
<i>Melita californica</i>	0.0	0.0	5.2	0.0	1.30	2.60	0.8 22
<i>Mysella tumida</i>	16.0	9.6	18.0	0.6	11.05	7.83	6.8 4
<i>Naineris quadricuspida</i>	3.4	0.0	0.0	0.0	0.85	1.70	0.5 27
<i>Nereis vexillifera</i>	0.6	0.4	1.0	0.0	0.50	0.42	0.3 30
<i>Odostomia</i>	0.2	4.6	1.6	0.0	1.60	2.12	1.0 18
<i>Ophelia limacina</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Orbiniella nuda</i>	0.0	0.0	0.2	0.0	0.05	0.10	0.0 41
<i>Owenia fusiformis</i>	0.0	0.0	0.2	0.0	0.05	0.10	0.0 42
<i>Paramoera sp. 3</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Pectinaria granulata</i>	3.6	0.2	0.0	0.0	0.95	1.77	0.6 25
<i>Pholoe minuta</i>	0.0	1.4	5.6	19.6	6.65	8.96	4.1 7
<i>Polydora brachycephala</i>	1.8	0.8	0.0	0.0	0.65	0.85	0.4 29
<i>Pontogeneia ivanovi</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Prionospio cirrifera</i>	0.0	0.0	1.6	0.0	0.40	0.80	0.2 33
<i>Protolthaca staminea</i>	13.0	0.0	9.4	0.2	5.65	6.58	3.5 11
<i>Rissoidae</i>	0.0	135.6	0.0	0.0	33.90	67.80	21.0 1
<i>Saccocirrus eroticus</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Saxidomus gigantea</i>	1.6	0.0	1.6	0.0	0.80	0.92	0.5 28
<i>Scoloplos armiger</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Sphaerosyllis pirifera</i>	0.4	0.4	5.0	0.0	1.45	2.37	0.9 19
<i>Spinulogammarus subcarinatus</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
<i>Spio filicornis</i>	3.6	0.2	0.0	0.0	0.95	1.77	0.6 25
<i>Syliis elongata</i>	6.8	0.0	0.0	0.2	1.75	3.37	1.1 17
<i>Tharyx multifilis</i>	0.0	0.0	0.0	0.0	0.00	0.00	0.0 43
N, as average number of macrofauna specimens per core	95.4	355.8	86.2	108.4	161.45	129.89	
S, as composite number of macrofaunal taxa in cores from site	32.0	32.0	34.0	18.0	29.00	7.39	
Mean S, based on no. of taxa in each core	15.2	18.2	14.0	9.8	14.30	3.48	
H', based on composite taxa from site	2.8	2.1	2.8	2.1	2.42	0.39	
Mean H', based on species diversity calculated for each core	2.1	1.8	2.1	1.7	1.93	0.22	

Table D-3 (continued).

	Category 3							All Categories		
	Site							Grand Overall		
	NW Bay	Shelter	Sleepy	Mean	S.D.	Percent	Rank	Mean	percent	Rank
West Arm	Bay	Bay								
Allorchestes angustus	0.0	0.0	0.0	0.00	0.00	0.0	25	0.5	0.5	28
Alvania compacta	3.0	0.4	5.0	2.80	2.31	9.2	5	5.3	4.9	6
Ampharetidae	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.4	37
Ampithoe dalli	0.0	0.0	0.0	0.00	0.00	0.0	25	2.1	1.9	14
Ampithoe kussakina	0.0	0.2	0.4	0.20	0.20	0.7	17	3.1	2.9	10
Armandia brevis	0.0	0.0	0.0	0.00	0.00	0.0	25	0.7	0.6	26
Barantolla americana	0.0	0.0	0.0	0.00	0.00	0.0	25	0.3	0.3	43
Capitella capitata	0.4	0.0	0.0	0.13	0.23	0.4	18	0.2	0.2	48
Cingula sp. 1	0.0	0.2	0.0	0.07	0.12	0.2	20	13.0	12.1	2
Cingula sp. 2	0.0	0.0	0.0	0.00	0.00	0.0	25	2.4	2.3	11
Corophium brevis	0.0	0.0	0.0	0.00	0.00	0.0	25	2.2	2.1	13
Cumella vulgaris	0.8	1.4	0.0	0.73	0.70	2.4	7	8.3	7.7	4
Eteone	0.8	0.0	0.4	0.40	0.40	1.3	13	0.6	0.6	27
Eteone longa	0.0	0.4	0.6	0.33	0.31	1.1	14	3.3	3.1	9
Eteone spetsbergensis	0.6	0.2	1.0	0.60	0.40	2.0	9	0.4	0.4	36
Exogone gemmifera	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.4	31
Fabriciola berkeleyi	0.0	0.0	0.0	0.00	0.00	0.0	25	1.5	1.4	18
Fartulum	1.2	0.0	0.8	0.67	0.61	2.2	8	6.2	5.8	5
Glycera capitata	0.0	0.0	0.0	0.00	0.00	0.0	25	0.3	0.2	44
Glycinde picta	0.0	0.0	0.0	0.00	0.00	0.0	25	0.3	0.2	45
Harmothoe imbricata	0.0	0.0	0.0	0.00	0.00	0.0	25	0.3	0.3	42
Ianiropsis	0.0	0.0	0.0	0.00	0.00	0.0	25	0.0	0.0	51
Lepidonotus squamatus	0.0	0.0	0.0	0.00	0.00	0.0	25	0.8	0.7	24
Leptochelia savignyi	0.4	0.0	0.0	0.13	0.23	0.4	18	0.9	0.9	23
Leptosynapta	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.3	39
Macoma balthica	0.0	0.0	0.0	0.00	0.00	0.0	25	1.9	1.8	16
Macoma inquinata	0.0	0.0	0.0	0.00	0.00	0.0	25	2.3	2.2	12
Melita californica	0.0	0.0	0.0	0.00	0.00	0.0	25	0.5	0.5	29
Mysella tumida	0.4	0.6	0.4	0.47	0.12	1.5	12	11.6	10.8	3
Naineris quadricuspida	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.3	38
Nereis vexillosa	0.2	1.4	0.2	0.60	0.69	2.0	10	0.4	0.4	34
Odostomia	1.8	0.0	0.0	0.60	1.04	2.0	11	1.3	1.2	20
Ophelia limacina	0.0	0.0	0.0	0.00	0.00	0.0	25	0.2	0.2	49
Orbiniella nuda	0.0	0.0	0.0	0.00	0.00	0.0	25	0.0	0.0	50
Owenia fusiformis	0.0	0.0	0.0	0.00	0.00	0.0	25	0.2	0.2	47
Paramoera sp. 3	0.2	12.0	7.8	6.67	5.98	21.9	1	2.0	1.9	15
Pectinaria granulata	0.0	0.0	0.2	0.07	0.12	0.2	20	1.3	1.2	21
Pholoe minuta	11.0	0.4	0.0	3.80	6.24	12.5	4	4.2	3.9	7
Polydora brachycephala	0.0	0.2	0.0	0.07	0.12	0.2	20	0.4	0.4	35
Pontogeneia ivanovi	0.0	0.0	4.6	1.53	2.66	5.0	6	0.5	0.4	30
Prionospio cirrifera	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.3	40
Protothaca staminea	0.2	0.2	0.4	0.27	0.12	0.9	15	4.2	3.9	8
Rissoidae	0.0	0.0	0.2	0.07	0.12	0.2	20	14.0	13.0	1
Saccocirrus eroticus	0.8	0.0	14.6	5.13	8.21	16.8	2	1.5	1.4	17
Saxidomus gigantea	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.4	33
Scoloplos armiger	0.0	0.0	0.0	0.00	0.00	0.0	25	0.3	0.2	46
Sphaerosyllis pirifera	0.0	0.2	0.0	0.07	0.12	0.2	20	0.7	0.7	25
Spinulogammarus subcarinatus	0.0	0.0	13.6	4.53	7.85	14.9	3	1.4	1.3	19
Spio filicornis	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.4	32
Syllis elongata	0.0	0.0	0.6	0.20	0.35	0.7	16	0.9	0.9	22
Tharyx multifilis	0.0	0.0	0.0	0.00	0.00	0.0	25	0.4	0.3	41
N, as average number of macrofauna specimens per core	22.4	17.8	51.2	30.47	18.10			107.4		
S, as composite number of macrofaunal taxa in cores from site	16.0	13.0	18.0	15.67	2.52					
Mean S, based on no. of taxa in each core	7.4	4.0	7.2	6.20	1.91			12.3		
H', based on composite taxa from site	1.9	1.3	2.0	1.73	0.34			2.2		
Mean H', based on species diversity calculated for each core	1.6	1.0	1.4	1.34	0.27			1.8		

**Table D-4 Principal component analysis of Infauna species and sites, 1990-1992.**

**PCA Canonical axes: 0 Covariables: 0 Scaling: 2**

**Log-transformation**

**Spec: Species scores (adjusted for species variance)**

[note: 0.00 weights were passively fitted]

<b>Species Scores</b>					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	.3571	.1703	.1191	.0611	1.00
Protobrachia staminea	.4684	.4186	.4642	-.2003	1.00
Eteone longa	.6897	.1954	-.0473	.0760	1.00
Pholoe minuta	.2097	.4404	-.3171	.2337	1.00
Mysella tumida	.8425	.3705	-.1025	-.0879	1.00
Alvania compacta	.8111	.1751	-.0522	-.2382	1.00
Cingula sp. 1	.4553	-.4384	-.6273	-.3768	1.00
Ampithoe kussakina	.4991	-.4225	-.5338	.3658	1.00
Cumella vulgaris	.1398	-.1832	-.1832	.0475	.00
Fartulum spp.	.5498	.6047	-.2648	.3506	1.00
Macoma balthica	.3342	-.7193	-.2702	-.0064	1.00
Nereis spp.	-.1787	.0060	.1023	-.1219	.00
Macoma inquinata	.7761	-.4119	.0866	-.0220	1.00
Armandia brevis	.6520	-.1133	.4383	.2839	1.00
Syllis elongata	.6044	.1406	.5147	-.2621	1.00
Pectinaria granulata	.7020	-.3367	.4342	.1962	1.00
Barantonia americana	.3607	-.5538	.3561	.3404	1.00
Capitella capitata	.3307	-.0349	.4524	.0482	.00
Saxidomus giganteus	.6179	.3032	.2619	-.1478	1.00
Polydora brachycephala	.4068	-.1544	.1279	.0955	.00
Glycinde picta	.6602	-.2558	.2552	.0687	1.00
Orbiniella nuda	-.0583	-.1311	.1224	.0032	.00
Leptochelia savignyi	.2533	.7634	-.2399	.1922	1.00
Allorchestes angusta	.1124	-.0294	.0214	-.0549	.00
Owenia fusiformis	.3825	.1193	.2637	.0603	.00
Glycera capitata	.6682	.2209	.3878	.1160	1.00
Mediomastus californiensis	.4600	.0777	.0653	.2082	.00

**Table D-4 (continued).**

<b>Species Scores</b>					
<b>Name</b>	<b>AX1</b>	<b>AX2</b>	<b>AX3</b>	<b>AX4</b>	<b>Weight</b>
<b>Eigenvalues</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>	<b>1.00</b>
<i>Spio filicornis</i>	.2531	-.1903	.4705	-.0496	.00
<i>Harmothoe imbricata</i>	.6063	-.3013	.1059	.2340	1.00
<i>Modiolus modiolus</i>	.2103	.4064	-.0322	-.0319	.00
<i>Paramoera</i> sp. 2	-.3538	.1236	-.1473	-.2490	.00
<i>Sphaerosyllis pirifera</i>	.3620	.0662	.0628	.2840	.00
<i>Prionospio steenstrupi</i>	.3836	.0848	.3037	.0120	.00
<i>Leitoscoloplos pugettensis</i>	.5539	-.2843	-.2566	-.2619	1.00
<i>Corophium brevis</i>	-.0285	-.3073	-.1991	-.1251	.00
<i>Fabriciola berkeleyi</i>	.0970	.0059	-.3855	.1987	.00
<i>Paramoera</i> sp. 1	-.4078	.0982	-.0373	.1010	.00
<i>Ophelia limacina</i>	.6285	.0865	-.1050	-.1463	1.00
<i>Naineris quadricuspida</i>	.5164	.1849	.1463	-.4410	1.00
<i>Eteone spetsbergensis</i>	-.1176	-.1336	-.2638	.0071	.00
<i>Polydora quadrilobata</i>	.1244	-.1055	.0396	-.3418	.00
<i>Lepidonotus squamatus</i>	.6340	-.0717	.0432	.0243	1.00
<i>Leptosynapta</i> spp.	.4877	.4481	-.0353	-.0164	1.00
<i>Prionospio cirrifera</i>	.4711	.1198	-.0889	.1791	.00
<i>Exogone gemmifera</i>	.2716	-.2080	.1247	.2010	.00

<b>Site scores</b>					
<b>Name</b>	<b>AX1</b>	<b>AX2</b>	<b>AX3</b>	<b>AX4</b>	<b>Weight</b>
<b>Eigenvalues</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>	
Crab Bay A 1990	-1.2596	-.7660	.3995	.1273	1.00
Outside Bay 1990	1.9147	.0031	-.8892	-.3648	1.00
Sheep Bay 1990	1.0229	-.2211	1.6318	-.4960	1.00
Crafton Island 1990	-.2716	-1.5974	1.0361	2.5111	1.00
Herring Bay 1990	.3361	-1.1421	-1.3240	-.1967	1.00
Mussel Beach S 1990	.5648	2.0966	.8633	-.6174	1.00
Snug Harbor	-.6746	1.1546	-.6776	1.4257	1.00
Block Island 1990	-.1604	-.3974	2.0532	.9506	1.00

**Table D-4 (continued).**

<b>Site scores</b>					
<b>Name</b>	<b>AX1</b>	<b>AX2</b>	<b>AX3</b>	<b>AX4</b>	<b>Weight</b>
<b>Eigenvalues</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>	
NW Bay W Arm 1990	-.9333	-.3967	.5000	-1.4479	1.00
Shelter Bay 1990	-1.2821	.0519	-.3434	-.6552	1.00
Bainbridge Bight 1991	-.0617	.3471	-.6312	-1.9581	1.00
Outside Bay 1992	1.4360	.0798	-.5394	-1.7860	1.00
Sheep Bay 1991	.2022	-.8880	.8197	-.2956	1.00
Bay of Isles 1991	-1.4715	.3269	.4235	-.2723	1.00
Crafton Island 1991	-.2920	-1.6858	.2113	1.3666	1.00
Herring Bay 1991	.6128	-1.0253	-1.5084	-.3739	1.00
Mussel Beach South 1991	.4589	1.6557	.0774	-.7188	1.00
Snug Harbor 1991	-.8113	1.4144	-.2128	.7006	1.00
Block Island 1991	.7930	-.7527	.9786	-.4001	1.00
Ingot Island 1991	-.0400	.5506	.3041	.2406	1.00
NW Bay W Arm 1991	-.9915	-.3152	.0994	-1.3075	1.00
Shelter Bay 1991	-1.3622	-.6693	-.2818	.1123	1.00
Sleepy Bay 1991	-1.3313	.2324	-.1850	.6331	1.00
Bainbridge Bight 1992	-1.2954	-.5524	-.4749	-.5573	1.00
Crab Bay B 1992	-.0720	-1.5196	-1.0224	-.4497	1.00
Outside Bay 1992	2.2748	.1241	-.6413	.4677	1.00
Sheep Bay 1992	1.3651	.1736	.8061	1.5759	1.00
Block Island 1992	1.1109	-.2082	2.7694	-1.1127	1.00
Herring Bay 1992	1.2900	-1.4594	-1.8548	.6537	1.00
Mussel Beach S 1992	.5854	1.7418	.0785	1.4415	1.00
Snug Harbor 1992	.2578	1.5221	-1.6338	1.2467	1.00
NW Bay W Arm 1992	-.7747	1.3343	-.3849	.2112	1.00
Shelter Bay 1992	-.7666	.2208	-.6245	-.5556	1.00
Sleepy Bay 1992	-.3735	.5666	.1776	-.0988	1.00
ORIGIN	1.4050	-.0376	.5398	.2824	.00

Table D-4 (continued).

NOAA INFAUNA 1990-92

PCA Canonical axes: 0 Covariables: 0 Scaling: 2

Cent./stand. by samples: 0 0 by species: 1 0

Log-transformation

CFit: Cumulative fit per species as fraction of variance of species

Species scores				
Name	AX1	AX2	AX3	AX4
<b>FR FITTED</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>
Protothaca staminea	.2194	.3946	.6101	.6502
Eteone longa	.4757	.5139	.5162	.5220
Pholoe minuta	.0440	.2379	.3385	.3931
Mysella tumida	.7098	.8471	.8576	.8653
Alvania compacta	.6578	.6885	.6912	.7479
Cingula sp. 1	.2073	.3994	.7929	.9349
Ampithoe kussakina	.2491	.4276	.7125	.8463
Cumella vulgaris	.0195	.0531	.0867	.0889
Fartulum spp.	.3023	.6680	.7381	.8610
Macoma balthica	.1117	.6290	.7021	.7021
Nereis spp.	.0319	.0320	.0425	.0573
Macoma inquinata	.6023	.7720	.7795	.7800
Armandia brevis	.4251	.4379	.6301	.7106
Syllis elongata	.3653	.3850	.6499	.7186
Pectinaria granulata	.4928	.6062	.7947	.8332
Barantolla americana	.1301	.4368	.5636	.6795
Capitella capitata	.1094	.1106	.3153	.3176
Saxidomus giganteus	.3818	.4737	.5423	.5641
Polydora brachycephala	.1655	.1893	.2057	.2148
Glycinde picta	.4358	.5012	.5664	.5711
Orbiniella nuda	.0034	.0206	.0356	.0356
Leptochelia savignyi	.0642	.6470	.7045	.7415
Allorchestes angusta	.0126	.0135	.0139	.0170
Owenia fusiformis	.1463	.1605	.2301	.2337
Glycera capitata	.4465	.4953	.6457	.6592

**Table D-4 (continued).**

<b>Species scores</b>	<b>AX1</b>	<b>AX2</b>	<b>AX3</b>	<b>AX4</b>
<b>FR FITTED</b>	.3571	.1703	.1191	.0611
<i>Mediomastus californiensis</i>	.2116	.2176	.2219	.2653
<i>Spio filicornis</i>	.0641	.1003	.3216	.3241
<i>Harmothoe imbricata</i>	.3676	.4584	.4696	.5243
<i>Modiolus modiolus</i>	.0442	.2094	.2104	.2114
<i>Paramoera</i> sp. 2	.1252	.1404	.1621	.2241
<i>Sphaerosyllis pirifera</i>	.1310	.1354	.1393	.2200
<i>Prionospio steenstrupi</i>	.1472	.1544	.2466	.2467
<i>Leptoscoloplos pugettensis</i>	.3068	.3877	.4535	.5221
<i>Corophium brevis</i>	.0008	.0952	.1349	.1505
<i>Fabriciola berkeleyi</i>	.0094	.0094	.1580	.1975
<i>Paramoera</i> sp. 1	.1663	.1760	.1774	.1876
<i>Ophelia limacina</i>	.3951	.4025	.4136	.4350
<i>Naineris quadricuspida</i>	.2667	.3009	.3223	.5167
<i>Eteone spetsbergensis</i>	.0138	.0317	.1013	.1013
<i>Polydora quadrilobata</i>	.0155	.0266	.0282	.1450
<i>Lepidonotus squamatus</i>	.4019	.4071	.4089	.4095
<i>Leptosynapta</i> spp.	.2378	.4386	.4399	.4401
<i>Prionospio cirrifera</i>	.2219	.2363	.2442	.2763
<i>Exogone gemmifera</i>	.0738	.1171	.1326	.1730

Table D-4 (continued).

NOAA INFAUNA 1990-92

PCA Canonical axes: 0 Covariables: 0 Scaling: 2

Cent./stand. by samples: 0 0 by species: 1 0

Log-transformation

SqRL: Squared residual length per sample with s axes (s=1...4)

[poorly fitted stations in bold]

Name	AX1	AX2	AX3	AX4	SQLENG	% FIT
<b>FR FITTED</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>		
Crab Bay A 1990	.4144	.3145	.2955	.2945	.98	69.98
Outside Bay 1990	.4770	.4770	.3828	.3747	1.79	79.02
Sheep Bay 1990	.6737	.6654	.3483	.3332	1.05	68.18
Crafton Island 1990	1.1706	.7360	.6082	.2228	1.20	81.39
Herring Bay 1990	1.0111	.7890	.5802	.5778	1.05	45.04
Mussel Beach S 1990	1.0823	.3336	.2448	.2215	1.20	81.48
Snug Harbor	.5606	.3335	.2788	.1546	.72	78.62
Block Island 1990	.8860	.8591	.3570	.3018	.90	66.29
NW Bay W Arm 1990	.3447	.3179	.2881	.1600	.66	75.60
Shelter Bay 1990	.1530	.1526	.1385	.1123	.74	84.82
<b>Bainbridge Bight 1991</b>	<b>1.1791</b>	<b>1.1586</b>	<b>1.1111</b>	<b>.8768</b>	<b>1.18</b>	<b>25.72</b>
Outside Bay 1992	.5486	.5476	.5129	.3179	1.28	75.26
<b>Sheep Bay 1991</b>	<b>.5822</b>	<b>.4479</b>	<b>.3679</b>	<b>.3625</b>	<b>.60</b>	<b>39.25</b>
Bay of Isles 1991	.1730	.1548	.1334	.1289	.95	86.38
Crafton Island 1991	.8872	.4032	.3978	.2837	.92	69.08
Herring Bay 1991	.7153	.5362	.2652	.2567	.85	69.78
Mussel Beach South 1991	.8358	.3689	.3682	.3366	.91	63.05
Snug Harbor 1991	.5431	.2024	.1970	.1670	.78	78.54
Block Island 1991	.5312	.4347	.3206	.3109	.76	58.87
<b>Ingot Island 1991</b>	<b>.4142</b>	<b>.3625</b>	<b>.3515</b>	<b>.3480</b>	<b>.41</b>	<b>16.09</b>
NW Bay W Arm 1991	.2864	.2695	.2683	.1639	.64	74.30
Shelter Bay 1991	.3123	.2360	.2265	.2257	.97	76.85
Sleepy Bay 1991	.1554	.1462	.1421	.1176	.79	85.08
Bainbridge Bight 1992	.4268	.3748	.3479	.3290	1.03	67.94
Crab Bay B 1992	.8216	.4283	.3038	.2915	.82	64.60

**Table D-4 (continued).**

Name	AX1	AX2	AX3	AX4	SQLENG	% FIT
<b>FR FITTED</b>	<b>.3571</b>	<b>.1703</b>	<b>.1191</b>	<b>.0611</b>		
Outside Bay 1992	.4239	.4212	.3723	.3589	2.27	84.20
Sheep Bay 1992	.6830	.6778	.6005	.4487	1.35	66.73
Block Island 1992	1.2489	1.2415	.3282	.2525	1.69	85.06
Herring Bay 1992	1.0523	.6896	.2798	.2537	1.65	84.59
Mussel Beach S 1992	.9548	.4381	.4373	.3103	1.08	71.19
Snug Harbor 1992	1.0485	.6538	.3359	.2409	1.07	77.53
NW Bay W Arm 1992	.5993	.2960	.2784	.2757	.81	66.12
Shelter Bay 1992	.1765	.1681	.1217	.1028	.39	73.38
<b>Sleepy Bay 1992</b>	<b>.4861</b>	<b>.4314</b>	<b>.4276</b>	<b>.4271</b>	<b>.54</b>	<b>20.31</b>

**Table D-6 Results of t-tests between upper and lower site groups from PCA infauna.**

**t-test: Two-Sample Assuming Unequal Variances**

	N	S-pool	S-avg	H'-pool	H'-avg
Lower Group Mean	119.300	30.250	13.700	2.264	1.745
Variance	10978.058	73.929	24.983	0.257	0.212
Upper Group Mean	38.500	17.000	6.986	1.916	1.309
Variance	1457.777	80.462	15.234	0.254	0.271
P(T<= t) one-tail	0.034	0.002	0.004	0.072	0.029
P(T<=t) two-tail	0.069	0.004	0.007	0.143	0.059
Observations	8.14				

**t-test: Two-Sample Assuming Unequal Variances**

	gravel	sand	fines
Lower Group Mean	0.490	0.272	0.238
Variance	0.013	0.004	0.012
Upper Group Mean	0.711	0.184	0.105
Variance	0.022	0.014	0.007
P(T<=t) one-tail	0.001	0.018	0.006
P(T<=t) two-tail	0.001	0.036	0.012
Observations	8.14		

**Table D-7 Sorted species scores from PCAs showing species weighting for each component axis.**

All Stations	X	Y	Z
<i>Mysella tumida</i>	0.84	<i>Leptochelia savignyi</i>	0.76
<i>Alvania compacta</i>	0.81	<i>Fartulum sp.</i>	0.60
<i>Macoma inquinata</i>	0.78	<i>Leptosynapta spp.</i>	0.45
<i>Pectinaria granulata</i>	0.70	<i>Pholoe minuta</i>	0.44
<i>Eteone longa</i>	0.69	<i>Protothaca staminea</i>	0.42
<i>Glycera capitata</i>	0.67	<i>Mysella tumida</i>	0.37
<i>Glycinde picta</i>	0.66	<i>Saxidomus giganteus</i>	0.30
<i>Armandia brevis</i>	0.65	<i>Glycera capitata</i>	0.22
<i>Lepidonotus squamatus</i>	0.63	<i>Eteone longa</i>	0.20
<i>Ophelia limacina</i>	0.63	<i>Naineris quadricuspida</i>	0.18
<i>Saxidomus giganteus</i>	0.62	<i>Alvania compacta</i>	0.18
<i>Harmothoe imbricata</i>	0.61	<i>Syllis elongata</i>	0.14
<i>Syllis elongata</i>	0.60	<i>Ophelia limacina</i>	0.09
<i>Leitoscoloplos pugettensis</i>	0.55	<i>Lepidonotus squamatus</i>	-0.07
<i>Fartulum sp.</i>	0.55	<i>Armandia brevis</i>	-0.11
<i>Naineris quadricuspida</i>	0.52	<i>Glycinde picta</i>	-0.26
<i>Ampithoe kussakina</i>	0.50	<i>Leitoscoloplos pugettensis</i>	-0.28
<i>Leptosynapta spp.</i>	0.49	<i>Harmothoe imbricata</i>	-0.30
<i>Cingula sp. 1</i>	0.46	<i>Macoma inquinata</i>	-0.41
<i>Barantolla americana</i>	0.36	<i>Ampithoe kussakina</i>	-0.42
<i>Macoma balthica</i>	0.33	<i>Cingula sp. 1</i>	-0.44
<i>Leptochelia savignyi</i>	0.25	<i>Barantolla americana</i>	-0.55
<i>Pholoe minuta</i>	0.21	<i>Macoma balthica</i>	-0.72

**Table D-7 (continued).**

Lower Group	X	Y	Z
Mysella tumida	0.93	Syllis elongata	0.77 Corophium brevis
Alvania compacta	0.92	Capitella capitata	0.70 Leitoscoloplos pugettensis
Fartulum sp.	0.78	Pectinaria granulata	0.67 Mediomastus californiensis
Leptochelia savignyi	0.74	Glycera capitata	0.65 Saxidomus giganteus
Ophelia limacina	0.72	Protothaca staminea	0.62 Alvania compacta
Leptosynapta spp.	0.65	Prionospio steenstrupi	0.51 Mysella tumida
Lepidonotus squamatus	0.64	Saxidomus giganteus	0.33 Cingula sp. 1
Saxidomus giganteus	0.58	Barantolla americana	0.33 Syllis elongata
Protothaca staminea	0.57	Mediomastus californiensis	0.30 Protothaca staminea
Glycera capitata	0.57	Naineris quadricuspida	0.24 Fabriciola berkeleyi
Prionospio steenstrupi	0.56	Polydora quadrilobata	0.19 Glycera capitata
Mediomastus californiensis	0.49	Lepidonotus squamatus	0.11 Barantolla americana
Leitoscoloplos pugettensis	0.44	Ophelia limacina	-0.03 Pectinaria granulata
Syllis elongata	0.41	Leptosynapta spp.	-0.08 Polydora quadrilobata
Cingula sp. 1	0.41	Alvania compacta	-0.13 Glycinde picta
Pectinaria granulata	0.25	Leptochelia savignyi	-0.14 Fartulum sp.
Polydora quadrilobata	0.18	Fartulum sp.	-0.16 Lepidonotus squamatus
Ampithoe kussakina	0.13	Corophium brevis	-0.37 Capitella capitata
Corophium brevis	0.11	Leitoscoloplos pugettensis	-0.42 Leptochelia savignyi
Capitella capitata	0.00	Fabriciola berkeleyi	-0.47 Ampithoe kussakina
Fabriciola berkeleyi	-0.40	Ampithoe kussakina	-0.83 Ophelia limacina
Barantolla americana	-0.61	Cingula sp. 1	-0.87 Leptosynapta spp.

**Table D-7 (continued).**

Upper Group	X	Y	Z
Mysella tumida	0.90	Cumella vulgaris	0.81 Mediomas tus californiensis 0.78
Fartulum sp.	0.86	Polydora quadrilobata	0.79 Allorchestes angusta 0.46
Eteone longa	0.84	Glycinde picta	0.74 Fabriciola berkeleyi 0.39
Leptochelia savignyi	0.82	Orbiniella nuda	0.73 Leptochelia savignyi 0.34
Saxidomus giganteus	0.78	Corophium brevis	0.67 Fartulum sp. 0.34
Leptosynapta spp.	0.71	Fabriciola berkeleyi	0.62 Pholoe minuta 0.31
Armandia brevis	0.70	Cingula sp. 1	0.60 Cumella vulgaris 0.30
Glycera capitata	0.69	Allorchestes angusta	0.60 Glycera capitata 0.17
Alvania compacta	0.69	Pholoe minuta	0.60 Eteone longa 0.04
Modiolus modiolus	0.63	Capitella capitata	0.52 Mysella tumida -0.01
Protothaca staminea	0.61	Macoma inquinata	0.45 Modiolus modiolus -0.17
Syllis elongata	0.57	Naineris quadricuspida	0.45 Cingula sp. 1 -0.18
Pholoe minuta	0.48	Mysella tumida	0.34 Saxidomus giganteus -0.27
Fabriciola berkeleyi	0.44	Mediomastus californiensis	0.13 Alvania compacta -0.27
Naineris quadricuspida	0.36	Glycera capitata	0.12 Corophium brevis -0.29
Mediomastus californiensis	0.32	Eteone longa	0.05 Glycinde picta -0.32
Capitella capitata	0.23	Leptochelia savignyi	0.01 Armandia brevis -0.37
Allorchestes angustus	0.08	Fartulum sp.	-0.16 Macoma inquinata -0.38
Glycinde picta	0.06	Leptosynapta spp.	-0.18 Polydora quadrilobata -0.39
Polydora quadrilobata	-0.05	Armandia brevis	-0.21 Leptosynapta spp. -0.42
Orbiniella nuda	-0.09	Saxidomus giganteus	-0.24 Syllis elongata -0.45
Cumella vulgaris	-0.12	Modiolus modiolus	-0.27 Orbiniella nuda -0.47
Cingula sp. 1	-0.17	Protothaca staminea	-0.31 Capitella capitata -0.49
Corophium brevis	-0.37	Alvania compacta	-0.33 Naineris quadricuspida -0.51

**Table D-8 PCA results from upper group.**

**PCA of NOAA INFAUNA 1990-92, Upper Group  
Centered by species, Log-transformation**

<b>Species scores (adjusted for species variance)</b>					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	<b>.3692</b>	<b>.2219</b>	<b>.1131</b>	<b>.0698</b>	
Protothaca staminea	.6102	-.3079	-.2725	.1788	1.00
Eteone longa	.8407	.0516	.0356	-.2389	1.00
Pholoe minuta	.4808	.5983	.3134	.1210	1.00
Mysella tumida	.9027	.3378	-.0148	-.1602	1.00
Alvania compacta	.6866	-.3313	-.2727	-.2530	1.00
Cingula sp. 1	-.1669	.6016	-.1764	-.5672	1.00
Ampithoe kussakina	.1838	.0887	.5209	.0297	.00
Cumella vulgaris	-.1191	.8081	.3001	.0746	1.00
Fartulum sp.	.8578	-.1648	.3387	.1930	1.00
Macoma balthica	-.5082	.1329	-.2871	.2470	.00
Nereis spp.	-.2177	.1176	-.2014	-.1369	.00
Macoma inquinata	.4560	.4538	-.3759	-.0840	1.00
Armandia brevis	.7046	-.2125	-.3674	.1790	1.00
Syllis elongata	.5676	.1303	-.4516	-.4451	1.00
Pectinaria granulata	.3178	-.2556	-.3349	-.0781	.00
Barantolla americana	.0959	-.1550	-.0665	-.0153	.00
Capitella capitata	.2251	.5246	-.4913	.2440	1.00
Saxidomus giganteus	.7820	-.2374	-.2700	.3067	1.00
Polydora brachycephala	.2610	-.1491	.2425	.1496	.00
Glycinde picta	.0630	.7415	-.3224	-.3208	1.00
Orbiniella nuda	-.0861	.7343	-.4714	.4128	1.00
Leptochelia savignyi	.8231	.0103	.3420	.2698	1.00
Allorchestes angusta	.0765	.6000	.4606	-.0999	1.00
Owenia fusiformis	.2355	-.0038	-.1403	.4739	.00
Glycera capitata	.6923	.1152	.1658	.1244	1.00
Mediomastus californiensis	.3185	.1263	.7841	.1202	1.00
Spio filicornis	.0824	.0955	-.4377	.4912	.00

**Table D-8 (continued).**

<b>Species scores (adjusted for species variance)</b>					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	.3692	.2219	.1131	.0698	
Modiolus modiolus	.6286	-.2731	-.1687	.2609	1.00
Paramoera sp. 2	-.2442	.2492	-.0866	-.3512	.00
Sphaerosyllis pirifera	.4622	-.0685	-.0675	.1638	.00
Corophium brevis	-.3723	.6699	-.2897	.3918	1.00
Fabriciola berkeleyi	.4387	.6227	.3900	-.2578	1.00
Paramoera sp. 1	-.2593	-.2965	.1427	-.0422	.00
Ophelia limacina	.3685	-.1532	-.2419	.0303	.00
Naineris quadricuspida	.3562	.4459	-.5055	-.1137	1.00
Eteone spetsbergensis	-.2018	-.0343	-.1763	.0008	.00
Polydora quadrilobata	-.0511	.7921	-.3948	-.1077	1.00
Leptosynapta spp.	.7118	-.1844	-.4178	.2512	1.00
Prionospio cirrifera	.3983	-.0069	.0111	.2810	.00
Exogone gemmifera	.3983	-.0069	.0111	.2810	.00
<b>Station scores (These scores are plotted to create the PCA figures.)</b>					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	.3692	.2219	.1131	.0698	
Crab Bay A 1990	-1.1883	.9709	-.9632	2.1020	1.00
Mussel Beach S 1990	1.7272	-.4661	-1.5273	.6414	1.00
Snug Harbor	.4275	-.3345	1.4474	.9215	1.00
NW Bay W Arm 1990	-.6685	-.8402	-.5788	-1.2203	1.00
Shelter Bay 1990	-.8390	.1227	.6953	-.5620	1.00
Bainbridge Bight 1991	.2597	3.0575	-1.3292	-1.3229	1.00
Bay of Isles 1991	-.8972	-.6959	.1331	.4431	1.00
Mussel Beach South 1991	1.5194	-.6316	-.9974	.1250	1.00
Snug Harbor 1991	.3833	-.1659	1.1272	.9897	1.00
Ingot Island 1991	.6095	-.6038	-.6851	-.6076	1.00
NW Bay W Arm 1991	-.7036	-.8292	-.3758	-1.0681	1.00
Shelter Bay 1991	-1.2185	-.3332	.2406	-.3345	1.00

Table D-8 (continued).

Station scores (These scores are plotted to create the PCA figures.)					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	<b>.3692</b>	<b>.2219</b>	<b>.1131</b>	<b>.0698</b>	
Sleepy Bay 1991	-.8120	-.7393	.4164	.5161	1.00
Bainbridge Bight 1992	-1.2098	1.2130	-.1136	1.1827	1.00
Mussel Beach S 1992	1.6422	-.0286	.0459	1.1588	1.00
Snug Harbor 1992	1.2747	1.2676	2.5938	-.9653	1.00
NW Bay W Arm 1992	.1398	-.0385	.7321	.6660	.00
Shelter Bay 1992	-.3773	.0162	.2379	-.9164	1.00
Sleepy Bay 1992	.0706	-.9796	-.3672	-1.0831	1.00
ORIGIN	1.3373	1.6347	-1.1418	.7354	.00

Cumulative fit per species as fraction of variance of species.					
Name	AX1	AX2	AX3	AX4	VAR (y)
<b>FR FITTED</b>	<b>.3692</b>	<b>.2219</b>	<b>.1131</b>	<b>.0698</b>	
Protobrachia staminea	.3723	.4671	.5414	.5733	.71
Eteone longa	.7068	.7095	.7107	.7678	1.31
Pholoe minuta	.2312	.5891	.6874	.7020	1.63
Mysella tumida	.8148	.9289	.9291	.9548	2.45
Alvania compacta	.4714	.5811	.6555	.7195	1.75
Cingula sp. 1	.0279	.3898	.4209	.7427	1.09
Ampithoe kussakina	.0338	.0416	.3129	.3138	1.03
Cumella vulgaris	.0142	.6673	.7574	.7629	1.55
Fartulum sp.	.7358	.7630	.8777	.9150	1.78
Macoma balthica	.2583	.2759	.3584	.4194	1.13
Nereis spp.	.0474	.0612	.1018	.1205	.99
Macoma inquinata	.2079	.4138	.5551	.5622	.46
Armandia brevis	.4965	.5417	.6767	.7087	1.00
Syllis elongata	.3222	.3392	.5432	.7413	.91
Pectinaria granulata	.1010	.1663	.2785	.2846	.20
Barantonia americana	.0092	.0332	.0377	.0379	.45
Capitella capitata	.0507	.3258	.5672	.6268	.68

**Table D-8 (continued).**

Cumulative fit per species as fraction of variance of species.					
Name	AX1	AX2	AX3	AX4	VAR (y)
<b>FR FITTED</b>	.3692	.2219	.1131	.0698	
<i>Saxidomus giganteus</i>	.6115	.6679	.7407	.8348	.80
<i>Polydora brachycephala</i>	.0681	.0903	.1492	.1716	.35
<i>Glycinde picta</i>	.0040	.5539	.6578	.7607	.11
<i>Orbiniella nuda</i>	.0074	.5467	.7689	.9393	1.49
<i>Leptochelia savignyi</i>	.6775	.6776	.7946	.8673	1.34
<i>Allorchestes angusta</i>	.0059	.3658	.5780	.5880	.86
<i>Owenia fusiformis</i>	.0555	.0555	.0752	.2997	.43
<i>Glycera capitata</i>	.4793	.4926	.5200	.5355	.28
<i>Mediomastus californiensis</i>	.1014	.1174	.7321	.7466	.38
<i>Spio filicornis</i>	.0068	.0159	.2075	.4488	.45
<i>Modiolus modiolus</i>	.3951	.4697	.4982	.5662	.81
<i>Paramoera</i> sp. 2	.0596	.1217	.1292	.2526	1.74
<i>Sphaerosyllis pirifera</i>	.2136	.2183	.2229	.2497	.61
<i>Corophium brevis</i>	.1386	.5874	.6713	.8248	.97
<i>Fabriciola berkeleyi</i>	.1924	.5802	.7322	.7987	.85
<i>Paramoera</i> sp. 1	.0672	.1551	.1755	.1773	1.11
<i>Ophelia limacina</i>	.1358	.1593	.2178	.2187	.16
<i>Naineris quadricuspida</i>	.1269	.3257	.5813	.5942	.49
<i>Eteone spetsbergensis</i>	.0407	.0419	.0730	.0730	.46
<i>Polydora quadrilobata</i>	.0026	.6300	.7858	.7974	.72
<i>Lneptosynapta</i> spp.	.5067	.5407	.7152	.7783	.58
<i>Prionospio cirrifera</i>	.1586	.1587	.1588	.2378	.31
<i>Exogone gemmifera</i>	.1586	.1587	.1588	.2378	.20

Table D-8 (continued).

Squared residual length per station with s axes (s = 1...4).						
Name	AX1	AX2	AX3	AX4	SQLENG	% FIT
<b>FITTED</b>	<b>.3692</b>	<b>.2219</b>	<b>.1131</b>	<b>.0698</b>		
Crab Bay A 1990	.9146	.7055	.6006	.2922	1.44	79.65
Mussel Beach S 1990	.5739	.5257	.2620	.2333	1.68	86.08
Snug Harbor	.6920	.6672	.4303	.3710	.76	51.15
NW Bay W Arm 1990	.3508	.1942	.1563	.0523	.52	89.85
Shelter Bay 1990	.2606	.2573	.2026	.1806	.52	65.31
Bainbridge Bight 1991	2.5515	.4772	.2775	.1553	2.58	93.97
Bay of Isles 1991	.3152	.2078	.2058	.1921	.61	68.64
Mussel Beach South 1991	.4315	.3430	.2305	.2294	1.28	82.13
Snug Harbor 1991	.5070	.5009	.3572	.2889	.56	48.53
Ingot Island 1991	.4355	.3546	.3015	.2757	.57	51.85
NW Bay W Arm 1991	.3510	.1985	.1825	.1029	.53	80.73
Shelter Bay 1991	.2107	.1861	.1796	.1717	.76	77.37
Sleepy Bay 1991	.2834	.1621	.1425	.1239	.53	76.49
Bainbridge Bight 1992	.8000	.4735	.4720	.3744	1.34	72.07
Mussel Beach S 1992	.4896	.4894	.4891	.3954	1.49	73.38
Snug Harbor 1992	1.3769	1.0204	.2597	.1947	1.98	90.15
Shelter Bay 1992	.2539	.2538	.2474	.1888	.31	38.39
Sleepy Bay 1992	.5557	.3428	.3276	.2457	.56	55.94
NW Bay W Arm 1992	.6456	.6452	.5846	.5537	.65	15.18

**Table D-9 PCA results from lower group.**

**PCA of NOAA Infauna 1990-92, Lower Group  
Centered by species, Log-transformation**

Species scores (adjusted for species variance)					
Name	AX1	AX2	AX3	AX4	Weight
Eigenvalues	.3406	.2851	.0811	.0739	
Protothaca staminea	.5690	.6191	.0343	-.3473	1.00
Eteone longa	.4450	-.0216	-.2036	.1452	.00
Pholoe minuta	.4108	-.1372	-.2504	.3769	.00
Mysella tumida	.9320	.0499	.2113	.0180	1.00
Alvania compacta	.9220	-.1308	.2510	-.0369	1.00
Cingula sp. 1	.4126	-.8742	.1277	-.1046	1.00
Ampithoe kussakina	.1282	-.8328	-.3807	-.0780	1.00
Cumella vulgaris	.1262	-.0209	.1913	.3523	.00
Fartulum spp.	.7831	-.1638	-.2622	.4382	1.00
Macoma balthica	-.2223	.2060	.1066	.1745	.00
Nereis spp.	-.0520	.1698	.0803	.2501	.00
Macoma inquinata	.3664	-.0201	.0700	-.0140	.00
Armandia brevis	-.0305	.4934	-.0262	.3343	.00
Syllis elongata	.4144	.7701	.0583	-.1946	1.00
Pectinaria granulata	.2474	.6659	-.1099	.4005	1.00
Barantolla americana	-.6121	.3296	-.0979	.2862	1.00
Capitella capitata	.0035	.7000	-.3438	-.0243	1.00
Saxidomus giganteus	.5769	.3315	.2723	-.3952	1.00
Polydora brachycephala	.1008	.1423	-.1321	.1791	.00
Glycinde picta	.4853	.4079	-.2291	.5425	1.00
Orbiniella nuda	-.3214	.1569	-.2506	.0412	.00
Leptochelia savignyi	.7373	-.1432	-.3523	-.2123	1.00
Allorchestes angusta	.0862	.2697	.5878	.0984	.00
Owenia fusiformis	.3772	.3787	.0228	.0676	.00
Glycera capitata	.5689	.6480	-.0971	-.0090	1.00
Mediomastus californiensis	.4943	.3018	.3220	.3227	1.00
Spio filicornis	-.0439	.4295	.0646	-.0505	.00

**Table D-9 (continued).**

Species scores (adjusted for species variance)					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	<b>.3406</b>	<b>.2851</b>	<b>.0811</b>	<b>.0739</b>	
Modiolus modiolus	.3544	.0992	-.0944	.4760	.00
Paramoera sp. 2	.2041	-.1609	.0928	-.4331	.00
Sphaerosyllis pirifera	.1507	.0692	-.2794	.4411	.00
Corophium brevis	.5646	.5130	.1591	.1914	1.00
Fabriciola berkeleyi	.4350	-.4204	.5680	-.1369	1.00
Paramoera sp. 1	.1069	-.3738	.5829	.6418	1.00
Ophelia limacina	-.3953	-.4748	-.0433	.1661	1.00
Naineris quadricuspida	.7212	-.0311	-.4657	-.1902	1.00
Eteone spetsbergensis	.6375	.2351	-.1041	-.3136	1.00
Polydora quadrilobata	-.0700	-.5318	.1275	.3253	.00
Leptosynapta spp.	.1831	.1857	-.1693	-.2322	1.00
Prionospio cirrifera	.6363	.1136	-.2912	.3519	1.00
Exogone gemmifera	.6514	-.0847	-.5145	-.0750	1.00

Sample scores (plot these scores to make PCA figures).					
Name	AX1	AX2	AX3	AX4	Weight
<b>Eigenvalues</b>	<b>.3406</b>	<b>.2851</b>	<b>.0811</b>	<b>.0739</b>	
Outside Bay 1990	1.5117	-.4171	-.7319	-.9223	1.00
Sheep Bay 1990	.4914	1.0737	2.2203	.9649	1.00
Crafton Island 1990	-1.6782	.3869	-1.1744	.8748	1.00
Herring Bay 1990	-.4887	-1.2372	.7442	-.5110	1.00
Block Island 1990	-.8925	1.2698	-.1849	.6095	1.00
Outside Bay 1992	1.0932	-.3566	.3710	-.6533	1.00
Sheep Bay 1991	-.5102	.4012	-.2468	-.8546	1.00
Crafton Island 1991	-1.6040	-.4581	-.5668	.0083	1.00
Herring Bay 1991	-.0807	-1.1797	.5231	-.7775	1.00
Block Island 1991	-.1561	.5207	.8301	-.11261	1.00
Crab Bay B 1992	-.8147	-.9428	-.3214	-.9860	1.00
Outside Bay 1992	1.8189	-.0857	-1.7526	.3016	1.00

Table D-9 (continued).

Sample scores (plot these scores to make PCA figures).					
Name	AX1	AX2	AX3	AX4	Weight
Eigenvalues	.3406	.2851	.0811	.0739	
Sheep Bay 1992	.5465	.8539	-1.2830	1.1927	1.00
Block Island 1992	.3769	1.8993	.6722	-.5671	1.00
Herring Bay 1992	.3865	-1.7284	.9010	2.4461	1.00
ORIGIN	.9555	.4893	-.5176	.7815	.00
Cumulative fit per species as fraction of variance of species.					
Name	AX1	AX2	AX3	AX4	VAR (y)
FR FITTED	.3406	.2851	.0811	.0739	
Protothaca staminea	.3237	.7070	.7081	.8288	1.26
Eteone longa	.1981	.1985	.2400	.2611	.75
Pholoe minuta	.1688	.1876	.2503	.3924	.80
Mysella tumida	.8686	.8711	.9157	.9160	1.35
Alvania compacta	.8501	.8672	.9302	.9316	1.91
Cingula sp. 1	.1702	.9344	.9507	.9617	2.93
Ampithoe kussakina	.0164	.7100	.8549	.8610	2.26
Cumella vulgaris	.0159	.0164	.0529	.1771	1.54
Fartulum spp.	.6133	.6401	.7089	.9009	1.72
Macoma balthica	.0494	.0918	.1032	.1337	.57
Nereis spp.	.0027	.0315	.0380	.1005	.59
Macoma inquinata	.1342	.1347	.1396	.1398	.52
Armandia brevis	.0009	.2444	.2451	.3569	.72
Syllis elongata	.1717	.7647	.7681	.8060	1.07
Pectinaria granulata	.0612	.5046	.5167	.6771	.54
Barantolla americana	.3747	.4833	.4929	.5748	.60
Capitella capitata	.0000	.4900	.6082	.6088	.76
Saxidomus giganteus	.3328	.4427	.5168	.6730	.81
Polydora brachycephala	.0102	.0304	.0479	.0800	.84
Glycinde picta	.2355	.4019	.4544	.7487	.64
Orbiniella nuda	.1033	.1279	.1907	.1924	.60

Table D-9 (continued).

Cumulative fit per species as fraction of variance of species.					
Name	AX1	AX2	AX3	AX4	VAR (y)
<b>FR FITTED</b>	.3406	.2851	.0811	.0739	
<i>Leptochelia savignyi</i>	.5436	.5641	.6882	.7333	.29
<i>Allorchestes angusta</i>	.0074	.0802	.4257	.4354	.76
<i>Owenia fusiformis</i>	.1423	.2857	.2862	.2907	.76
<i>Glycera capitata</i>	.3236	.7435	.7529	.7530	.72
<i>Mediomastus californiensis</i>	.2444	.3354	.4391	.5432	.61
<i>Spio filicornis</i>	.0019	.1864	.1906	.1932	1.03
<i>Modiolus modiolus</i>	.1256	.1354	.1443	.3708	1.04
<i>Paramoera</i> sp. 2	.0417	.0676	.0762	.2637	.46
<i>Sphaerosyllis pirifera</i>	.0227	.0275	.1056	.3001	.70
<i>Corophium brevis</i>	.3188	.5820	.6073	.6439	.73
<i>Fabriciola berkeleyi</i>	.1892	.3659	.6885	.7072	.61
<i>Paramoera</i> sp. 1	.0114	.1511	.4909	.9028	.83
<i>Ophelia limacina</i>	.1562	.3817	.3836	.4111	.46
<i>Naineris quadricuspida</i>	.5201	.5210	.7379	.7741	1.01
<i>Eteone spetsbergensis</i>	.4065	.4617	.4725	.5709	.87
<i>Polydora quadrilobata</i>	.0049	.2878	.3040	.4098	.45
<i>Leptosynapta</i> spp.	.0335	.0680	.0967	.1506	.43
<i>Prionospio cirrifera</i>	.4049	.4178	.5026	.6264	1.08
<i>Exogone gemmifera</i>	.4243	.4315	.6962	.7018	.51

Squared residual length per station with s axes (s = 1...4).						
Name	AX1	AX2	AX3	AX4	SQLENG	% FIT
<b>FITTED</b>	.3406	.2851	.0811	.0739		
Outside Bay 1990	.4180	.3684	.3249	.2621	1.20	78.09
Sheep Bay 1990	.9134	.5848	.1849	.1161	1.00	88.34
Crafton Island 1990	.3938	.3511	.2392	.1827	1.35	86.50
Herring Bay 1990	.6986	.2622	.2173	.1980	.78	74.61
Block Island 1990	.7205	.2609	.2581	.2307	.99	76.74
Outside Bay 1992	.5666	.5304	.5192	.4877	.97	49.91

Table D-9 (continued).

Squared residual length per station with s axes (s = 1...4).						
Name	AX1	AX2	AX3	AX4	SQLENG	% FIT
FITTED	.3406	.2851	.0811	.0739		
Sheep Bay 1991	.2867	.2408	.2358	.1819	.38	51.54
Crafton Island 1991	.3055	.2457	.2197	.2197	1.18	81.41
Herring Bay 1991	.6219	.2252	.2030	.1584	.62	74.63
Block Island 1991	.4116	.3343	.2784	.1848	.42	56.00
Crab Bay B 1992	.6071	.3537	.3453	.2735	.83	67.17
Outside Bay 1992	.3967	.3946	.1454	.1387	1.52	90.90
Sheep Bay 1992	.7567	.5489	.4154	.3103	.86	63.85
Block Island 1992	1.4177	.5662	.5003	.0583	1.47	96.03
Herring Bay 1992	1.3769	.3486	.3119	.2882	1.43	79.78

## **APPENDIX E**

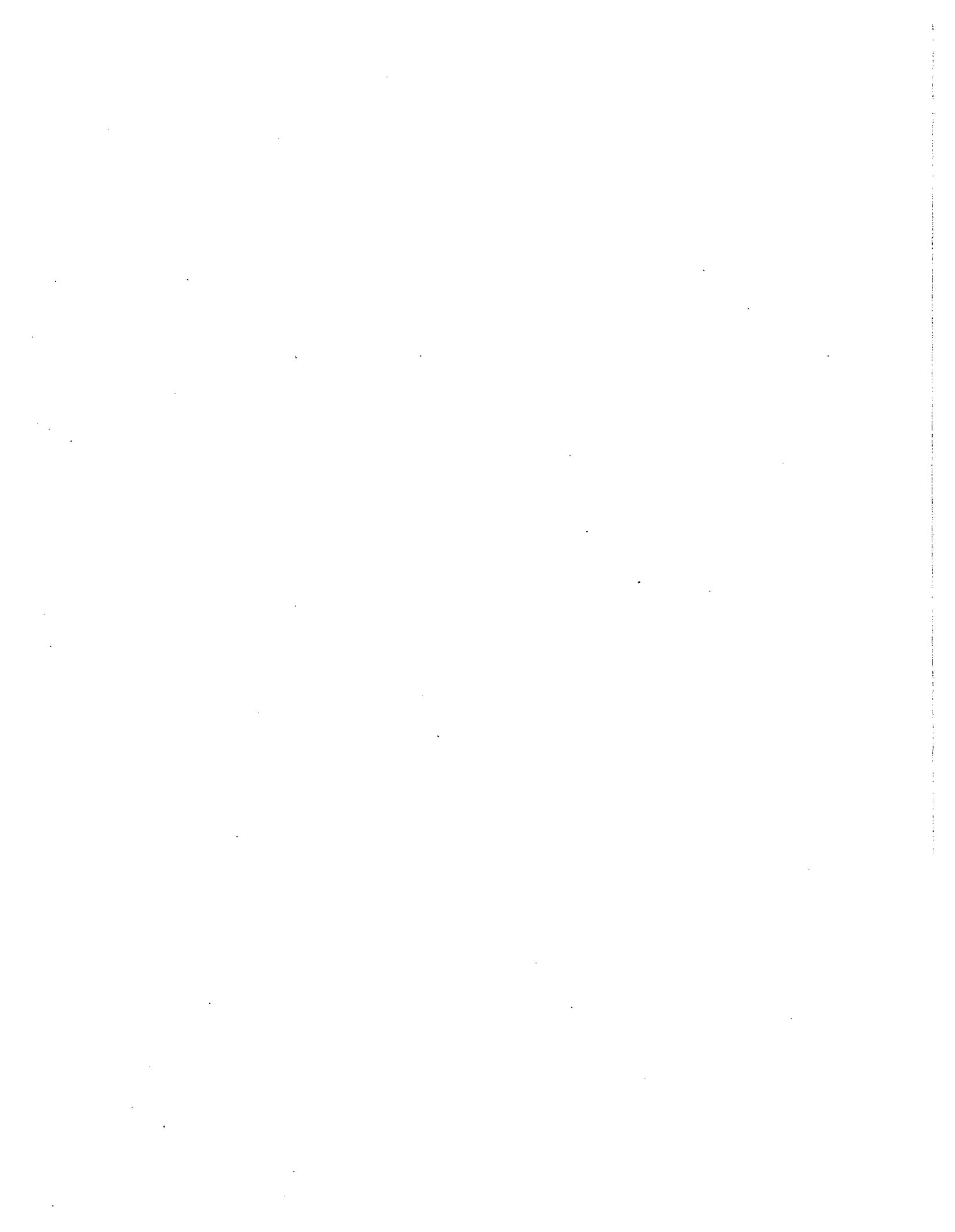


Table E-1-1 Age and growth of *Protothaca staminea* from July 1992 samples, Block Island.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			Age-3 (1988-89)		
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
0	73	6.28	1.02												
1	169	10.96	1.58	6.62	1.07	4.34									
2	112	14.84	1.77	9.67	1.48	5.17	4.83	0.99	4.84						
3	12	22.38	2.41	17.70	3.05	4.68	12.36	1.96	5.34	4.73	1.51	7.63			
4	18	26.98	2.54	23.93	2.85	3.04	18.03	3.44	5.90	10.84	1.95	7.19	5.62	1.13	5.22
5	14	29.44	2.87	26.80	2.66	2.64	23.21	2.86	3.59	15.69	2.26	7.52	10.56	1.37	5.14
6	9	31.62	4.32	30.22	3.96	1.40	26.54	2.39	3.68	20.84	2.48	5.70	15.06	2.14	5.79
7	5	33.86	4.23	32.54	4.45	1.32	30.16	4.46	2.38	25.44	5.15	4.72	20.52	4.30	4.92
8	3	35.80	4.39	34.73	2.58	1.07	32.07	2.70	2.67	29.27	2.63	2.80	25.40	2.35	3.87
9	1	42.70		41.00		1.70	38.60		2.40	33.80		4.80	29.10		4.70
10	0														
Total	416	13.82	7.21												

Table E-1-2 Age and growth of *Protothaca staminea* from July 1992 samples, Crab Bay.

Table E-1-3 Age and growth of *Protothaca staminea* from July 1992 samples, N. Elrington Island West.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			Age-3 (1988-89)		
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
0	0														
1	0														
2	2	12.40	2.55	9.15	4.03	3.25	5.80	3.11	3.35			5.80			
3	4	19.10	4.99	16.45	4.11	2.65	11.75	2.19	4.70	5.50	2.11	6.25			
4	0														
5	1	33.40		31.80		1.60	26.70		5.10	20.00		6.70	13.10	6.90	
6	0														
7	1	36.60		34.60		2.00	32.10		2.50	27.70		4.40	22.90	4.80	
8	1	35.00		33.50		1.50	31.90		1.60	28.50		3.40	25.20	3.30	
9	0														
10	0														
Total	9	22.91	10.02												

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**Table E-1-4 Age and growth of *Protothaca staminea* from July 1992 samples, Herring Bay.**

Table E-1-5 Age and growth of *Protothaca staminea* from July 1992 samples, Ingot Island.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			Age-3 (1988-89)		
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
0	0														
1	5	8.76	0.77	6.52	0.89	2.24			6.52						
2	6	11.53	1.43	9.00	0.97	2.53	5.27	0.81	3.73			5.27			
3	12	14.72	2.60	12.85	2.08	1.87	10.03	1.53	2.82	5.94	0.80	4.09		5.94	
4	12	18.78	4.95	17.28	3.92	1.49	14.17	2.89	3.12	10.01	1.83	4.16	5.56	1.37	4.45
5	6	22.97	1.22	21.47	1.07	1.50	17.98	1.73	3.48	14.03	1.51	3.95	9.97	1.78	4.07
6	9	24.86	3.27	24.09	3.13	0.77	21.91	3.14	2.18	19.21	3.31	2.70	14.69	1.96	4.52
7	6	26.77	2.23	25.45	1.86	1.32	23.47	1.63	1.98	20.42	2.03	3.05	16.82	1.28	3.60
8	1	35.40		34.00		1.40	31.90		2.10	29.50		2.40	26.90		2.60
9	0														
10	0														
Total	57	17.28	7.05												

**Table E-1-6** Age and growth of *Protothaca staminea* from July 1992 samples, Mussel Beach South.

Table E-1-7 Age and growth of *Protobranchia staminea* from July 1992 samples, Northwest Bay West Arm.

Age	No.	Mean Length (mm)												
		Total length			Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.
0	1	5.00				5.00								
1	1	7.90		5.90		2.00								
2	7	13.69	1.76	10.69	1.33	3.00	5.70	1.59	4.99					
3	0													
4	0													
5	0													
6	0													
7	1	31.30		27.60		3.70	21.90		5.70	18.50		3.40	13.70	4.80
8	0													
9	0													
10	0													
Total	10	14.00	6.97											

**Table E-1-8 Age and growth of *Protobrachia staminea* from July 1992 samples, Outside Bay.**

Table E-1-9 Age and growth of *Protothaca staminea* from July 1992 samples, Sheep Bay.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1991-92)				Age-1 (1990-91)			Age-2 (1989-90)				
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
0	40	4.91	1.68			4.91									
1	41	10.12	1.50	5.66	1.19	4.47				5.66					
2	50	15.52	2.00	10.49	1.51	5.03	4.51	1.06	5.98				4.51		
3	26	22.90	2.94	19.14	2.64	3.76	12.16	2.18	6.98	5.90	1.48	6.26		5.90	
4	33	24.56	2.59	22.10	2.18	2.46	16.55	2.04	5.55	10.58	1.62	5.97	5.99	1.33	4.59
5	23	26.32	2.55	24.42	2.47	1.90	20.05	2.54	4.37	14.56	2.09	5.49	9.97	1.80	4.59
6	14	29.44	2.62	27.84	2.65	1.60	24.35	2.65	3.49	19.61	2.22	4.74	14.76	1.63	4.85
7	3	29.63	2.87	28.20	4.16	1.43	25.67	4.91	2.53	21.70	6.44	3.97	16.90	4.99	4.80
8	3	29.83	3.38	28.70	3.28	1.13	25.43	4.17	3.27	22.70	3.06	2.73	19.73	3.51	2.97
9	1	30.60		29.30		1.30	27.70		1.60	24.50		3.20	23.00		1.50
10	0														
999	1	17.30													
Total	235	17.24	8.55												

**Table E-1-10 Age and growth of *Protobrachia staminea* from July 1992 samples, Shelter Bay.**

Table E-1-11 Age and growth of *Protothaca staminea* from July 1992 samples, Sleepy Bay.

Age	No.	Mean Length (mm)										
		Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)		
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth
0	0											
1	0											
2	1	21.20		15.00		6.20	7.00		8.00			7.00
3	0											
4	0											
5	0											
6	1	36.80		35.60		1.20	32.60		3.00	25.90		6.70
7	0											
8	0											
9	0											
10	0											
Total	2	29.00	14.57									

**Table E-1-12** Age and growth of *Protothaca staminea* from July 1992 samples, Snug Harbor.

**Table E-2-1** Age and growth of *Protobrachia staminea* from May-September 1991 samples, Bainbridge Bight transplant experiment.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1990-91)			Age-1 (1989-90)			Age-2 (1988-89)			Age-3 (1987-88)		
		Length	S.D.	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth	Length	S.D.	88 Growth
0	0														
1	0														
2	4	15.70	2.38	13.00	1.18	2.70	5.43	1.79	7.58						
3	24	20.40	2.51	19.08	2.15	1.32	13.26	2.06	5.81	5.97	1.28	7.29			
4	35	23.43	2.27	22.39	2.25	1.04	17.79	2.49	4.60	11.42	2.55	6.36	5.08	1.70	6.34
5	22	26.59	1.53	26.05	1.44	0.55	22.39	1.70	3.66	17.42	2.43	4.97	12.18	2.49	5.24
6	12	27.77	1.93	27.04	2.22	0.72	23.88	2.28	3.17	20.38	2.46	3.49	16.17	2.38	4.22
7	8	28.59	1.79	28.35	1.79	0.24	25.83	1.31	2.53	22.99	1.51	2.84	18.84	1.51	4.15
8	4	31.18	2.32	31.08	2.43	0.10	29.45	2.22	1.63	27.40	1.81	2.05	24.55	1.82	2.85
9	0														
10	0														
Total	109	26.55	4.29												

**Table E-2-2** Age and growth of *Protothaca staminea* from May-September 1991 samples, Block Island transplant experiment (all quadrats combined).

Table E-2-3 Age and growth of *Protothaca staminea* from May-September 1991 Samples, Block Island transplant experiment  
(by individual quadrat).

Quad 1 (near terminus)		Mean Length (mm)													
Age	No.	Total length		Last Annulus (1990-91)			Age-1 (1989-90)			Age-2 (1988-89)			Age-3 (1987-88)		
		Length	S.D.	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth	Length	S.D.	88 Growth
0	0														
1	0														
2	3	13.27	2.16	9.30	1.85	3.97	4.37	1.33	4.93						
3	29	23.32	3.59	18.98	2.87	4.34	12.69	2.54	6.29	5.96	1.38	6.73			
4	48	26.07	2.11	21.79	1.94	4.28	17.01	2.17	4.78	10.91	2.02	6.10	5.14	1.60	5.77
5	9	26.84	4.07	24.23	3.29	2.61	19.67	3.05	4.57	15.23	2.55	4.43	10.14	1.82	5.09
6	6	26.65	5.51	24.33	3.89	2.32	20.52	3.43	3.82	17.57	3.52	2.95	14.30	3.20	3.27
7	1	34.30		32.00		2.30	30.00		2.00	28.80		1.20	22.80		6.00
8	1	23.10		22.00		1.10	20.20		1.80	18.30		1.90	17.00		1.30
9	0														
10		34.50		33.80		0.70	32.60		1.20	29.50		3.10	28.50		1.00
Total	98	25.11	4.11												

Quad 3		Mean Length (mm)													
Age	No.	Total length		Last Annulus (1990-91)			Age-1 (1989-90)			Age-2 (1988-89)			Age-3 (1987-88)		
		Length	S.D.	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth	Length	S.D.	88 Growth
0	0														
1	0														
2	0														
3	23	21.21	2.01	18.23	1.86	2.98	12.40	2.18	5.83	6.56	1.20	5.83			
4	40	24.80	2.45	22.56	2.14	2.24	17.76	2.21	4.80	11.49	2.05	6.27	5.30	1.32	6.20
5	14	27.61	1.52	25.27	1.47	2.34	20.88	1.66	4.39	16.09	2.08	4.79	11.09	1.90	5.00
6	6	30.46	2.4521	29.38	2.63	1.08	26.60	2.86	2.78	22.98	3.36	3.62	18.70	3.32	4.28
7	0														
8	4	28.15	0.9815	27.15	0.65	1.00	25.43	1.14	1.73	23.15	1.68	2.28	20.63	2.25	2.53
9	0														
10	0														
Total	87	24.78	3.42												

**Table E-2-3** (continued).

Table E-2-4 Age and growth of *Protothaca staminea* from May-September 1991 samples, Northwest Bay West Arm transplant experiment.

Age	No.	Mean Length (mm)												
		Total length			Last Annulus (1990-91)			Age-1 (1989-90)			Age-2 (1988-89)			
		Length	S.D.	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth	Length	S.D.
0	0													
1	1	10.50		7.40		3.10								
2	17	19.25	2.60	14.25	1.44	5.00	7.44	0.59	6.82					
3	130	23.32	2.13	17.93	1.73	5.39	11.58	1.89	6.35	5.70	1.43	5.88		
4	123	26.86	2.35	22.02	1.99	4.83	16.93	2.17	5.10	10.66	1.80	6.27	4.99	1.45
5	66	30.06	2.38	25.72	2.11	4.34	21.39	2.08	4.33	16.11	2.20	5.28	10.71	1.60
6	38	32.47	2.04	28.29	1.97	4.17	24.93	1.93	3.37	21.15	2.03	3.77	16.17	2.28
7	6	33.02	2.21	30.28	2.95	2.73	27.50	3.57	2.78	24.48	3.47	3.02	20.27	2.72
8	4	33.25	3.78	30.25	2.98	3.00	28.58	2.86	1.68	26.43	2.01	2.15	24.25	1.95
9	0													
10	0													
Total	385	26.55	4.29											

**Table E-3-1** Age and growth of *Saxidomus giganteus* from July 1992 samples, Block Island.

Table E-3-2 Age and growth of *Saxidomus giganteus* from July 1992 samples, Ingot Island.

Age	No.	Mean Length (mm)												
		Total length			Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.
0	0													
1	1	9.40		6.40		3.00			6.40					
2	2	15.15	5.59	11.90	4.95	3.25	6.30	2.12	5.60			6.30		
3	0													
4	0													
5	2	22.60	0.85	22.35	1.06	0.25	19.15	1.91	3.20	14.70	2.69	4.45	10.20	1.13
6	2	31.35	5.16	28.60	3.96	2.75	24.80	2.97	3.80	19.75	2.47	5.05	16.55	1.77
7	7	38.47	3.26	36.61	4.21	1.86	32.40	4.69	4.21	27.93	4.39	4.47	23.29	3.26
8	2	42.50	0.42	40.15	0.07	2.35	36.60	1.13	3.55	32.60	1.70	4.00	30.10	3.11
9	1	44.30		42.30		2.00	40.00		2.30	33.90		6.10	29.80	
10	0													
Total	17	32.13	11.30											

**Table E-3-3** Age and growth of *Saxidomus giganteus* from July 1992 samples, Mussel Beach.

Table E-3-4 Age and growth of *Saxidomus giganteus* from July 1992 samples, Outside Bay.

Age	No.	Mean Length (mm)													
		Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			Age-3 (1988-89)		
		Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
0	0														
1	1	8.00		4.20		3.80			4.20						
2	0														
3	1	28.80		22.20		6.60	11.20		11.00	3.20		8.00		3.20	
4	0														
5	4	32.18	8.46	29.38	8.82	2.80	23.95	6.34	5.43	15.53	4.52	8.43	10.45	2.63	5.08
6	0														
7	1	40.70		37.20		3.50	32.60		4.60	27.90		4.70	22.20		5.70
8	1	57.00		53.70		3.30	49.50		4.20	41.50		8.00	35.40		6.10
9	3	51.60	3.37	49.27	3.39	2.33	44.80	3.40	4.47	40.00	2.75	4.80	35.80	2.40	4.20
10	0														
Total	11	38.00	15.10												

**Table E-3-5 Age and growth of *Saxidomus giganteus* from July 1992 samples, Sheep Bay.**

Table E-3-6 Age and growth of *Saxidomus giganteus* from July 1992 samples, Shelter Bay and Snug Harbor.

Age No.	Mean Length (mm)													
	Total length		Last Annulus (1991-92)			Age-1 (1990-91)			Age-2 (1989-90)			Age-3 (1988-89)		
	Length	S.D.	Length	S.D.	92 Growth	Length	S.D.	91 Growth	Length	S.D.	90 Growth	Length	S.D.	89 Growth
<b>Shelter Bay</b>														
2 1	15.00		9.50		5.50	5.00		4.50						
<b>Snug Harbor</b>														
2 1	19.50		14.00		5.50	8.50		5.50						